Cody Interagency Dispatch Zone

Interagency Fire Danger Operating Plan

Version 2021.v1.6













June 2021

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Cody Interagency Dispatch Zone

Interagency Fire Danger Operating Plan

Approved By: Agency Administrators

COREST SERVICE LA S EMPLOY OF LORGE TO THE SERVICE TO THE	Lisa Timchak - Forest Supervisor US Forest Service, Shoshone National Forest	
OREST SERVICE	Andrew Johnson - Forest Supervisor US Forest Service, Bighorn National Forest	
U.S. DEFAIRMENT OF THE INTERIOR ORIGINAL OF LINE INVOCACION	CALEB HINER Digitally signed by CALEB HINER Date: 2021.08.10 15:26:11 -06'00' Caleb Hiner - Acting District Manager Bureau of Land Management, Wind River/Bighorn Basin District	
ENTREMENT OF INDUSTRIES	Leslie Shakespeare - Acting Superintendent Bureau of Indian Affairs, Wind River Agency	
NATIONAL PARK SERVICE	JAMES HILL Date: 2021.08.10 16:41:48 -06'00' James Hill - Superintendent National Park Service, Bighorn Canyon National Recreation Area	
TOMING STATE	Bill Crapser State Forester Wyoming State Division of Forestry, Wyoming State Office	

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Cody Interagency Dispatch Zone

Interagency Fire Danger Operating Plan

Recommended By: Fire Program Managers



Clint Dawson - Acting Forest Fire Staff
US Forest Service, Shoshone National Forest



Jon Warder - Forest Fire Management Officer US Forest Service, Bighorn National Forest



BRENT MEISINGER MEISINGER

Digitally signed by BRENT

Date: 2021.08.10 14:44:39 -06'00'

7/12/21

Brent Meisinger - District Fire Management Officer Bureau of Land Management, Wind River/Bighorn Basin District



Bob Jones - Acting Fire Management Officer Bureau of Indian Affairs, Wind River Agency



CHRISTOPHER COLLINS Digitally signed by CHRISTOPHER COLLINS Date: 2021.08.10 10:38:09 -06'00'

Chip Collins - Fire Management Officer National Park Service, Teton National Park



Anthony Shultz - Fire Management Officer

Wyoming State Division of Forestry, Wyoming State Office

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Cody Interagency Dispatch Zone

Interagency Fire Danger Operating Plan

Prepared By: Technical Group

7/12/21



Clint Dawson - Acting Forest Fire Staff
US Forest Service, Shoshone National Forest



Kevin Hillard - Tongue RD Fire Management Officer - Title US Forest Service, Bighorn National Forest



JOEL PETERS JOEL PETERS 2021.08.10 14:54:29 -06'00'

Joel Peters - BLM Fire Planner
Bureau of Land Management, Wind River/Bighorn Basin District



Hal Bromley - Assistant Center Manager
US Forest Service, Cody Interagency Dispatch Center



Cheryl Bright - Fire Planner Bureau of Indian Affairs, National Interagency Fire Center

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I. INTRODUCTION

PURPOSE

The Cody Interagency Fire Danger Operating Plan (FDOP) documents the decision-making process for agency administrators, fire managers, dispatchers, cooperators, and firefighters by establishing interagency planning, staffing and response levels. The public, industry, and our own agency personnel expect the interagency wildland fire management agencies to implement appropriate and timely decisions which ultimately result in safe, efficient, and effective wildland fire management actions. An appropriate level of preparedness to meet wildland fire management objectives is based upon an assessment of vegetation, climate, and topography utilizing the National Fire Danger Rating System (NFDRS). This plan provides a science-based "tool" for interagency fire managers to incorporate a measure of risk associated with decisions.

OPERATING PLAN OBJECTIVES

- 1. Provide a tool for agency administrators, fire managers, dispatchers, cooperators, and firefighters to correlate fire danger ratings with appropriate fire business decisions in fire danger planning area.
- 2. Delineate fire danger rating areas (FDRAs) in fire danger planning area with similar climate, vegetation, and topography.
- 3. Establish an interagency fire weather-monitoring network consisting of Remote Automated Weather Stations (RAWS) which comply with NFDRS Weather Station Standards (PMS 426-3).
- 4. Determine climatological breakpoints and fire business thresholds using the Weather Information Management System (WIMS), National Fire Danger Rating System (NFDRS), FireFamilyPlus software to analyze and summarize an integrated database of historical fire weather and fire occurrence data.
- 5. Define roles and responsibilities to make fire preparedness decisions, manage weather information, and brief fire suppression personnel regarding current and potential fire danger.
- 6. Determine the most effective communication methods for fire managers to communicate potential fire danger to cooperating agencies, industry, and the public.
- 7. Provide guidance to interagency personnel outlining specific daily actions and considerations at each preparedness level.

- 8. Identify seasonal risk analysis criteria and establish general fire severity thresholds.
- 9. Identify the development and distribution of fire danger pocket cards to all personnel involved with fire suppression within the fire danger planning area.
- 10. Identify program needs and suggest improvements for implementation of the Fire Danger Operating Plan.

FIRE DANGER OPERATING PLAN

Interagency policy and guidance require numerous unit plans and guides to meet preparedness objectives. Some of these plans and guides are inter-related; some plans and guides provide the basis for other plans/guides as shown in Figure 1.

This Fire Danger
Operating Plan (FDOP)
guides the application of
information from
decision support tools
(such as NFDRS) at the
local level. This FDOP is
supplemental to the
Wind River/ Bighorn
Basin District Fire
Management Plan, Wind
River Wildland Fire
Management Plan, and
the Bighorn and
Shoshone National



Figure 1: Preparedness Plan Relationship

Management Reference System; it documents the establishment and management of a fire weather station network and describes how fire danger ratings will be applied to local unit fire management decisions. The actual implementation of the fire business thresholds is described in the following supplemental action plans.

The decision points are identified and documented in the Cody Interagency Dispatch Zone Fire Danger Operating Plan.

a. Staffing Plan

Forest's Fire

The Staffing Plan describes the expected needed and initial response actions based on expected risk (human and lightning) and predicted burning conditions. Decision points are identified and documented in the Cody Interagency Fire

Danger Operation Plan; the associated decisions and planned actions are in Appendix B.

b. Preparedness Plan

Preparedness plans provide management direction given identified levels of burning conditions, fire activity, and resource commitment, and are required at national, state/regional, and local levels. Preparedness Levels (1-5) are determined by incremental measures of burning conditions, fire activity, and resource commitment. Fire danger rating is a critical measure of burning conditions. The Preparedness Levels are identified and documented in the Cody Interagency Dispatch Zone Fire Danger Operating Plan; the associated decisions and planned actions are in Appendix C.

c. Prevention Plan

Prevention plans document the wildland fire problems identified by a prevention analysis. This analysis will not only examine human-caused fires, but also the risks, hazards, and values for the planning unit. Components of the plan include mitigation (actions initiated to reduce impacts of wildland fire to communities), prevention (of unwanted human-caused fires), education (facilitating and promoting awareness and understanding of wildland fire), enforcement (actions necessary to establish and carry out regulations, restrictions, and closures), and administration of the prevention program. The analysis of fire problems and associated target groups in the Cody Interagency Dispatch Zone are documented in this Fire Danger Operating Plan; the associated decisions and planned actions are not included in this plan. Prevention plans are maintained by the local unit.

d. Restriction Plan

A Restriction Plan is an interagency document that outlines interagency coordination efforts regarding fire restrictions and closures. An interagency approach for initiating restrictions or closures helps provide consistency among the land management partners, while defining the restriction boundaries so they are easily distinguishable to the public. Based on the fire danger, managers may impose fire restrictions or emergency closures to public lands. Decision points when restrictions and/or closures should be considered are done in close coordination with the counties and therefore are not identified in this plan.

Although there is no formal interagency restriction plan for Wyoming, regular restriction coordination calls are scheduled as needed during the fire season as fire danger increases.

Wildfire Response

a. Initial Response Plan

Initial response plans, also referred to as run cards or pre-planned response plans, specify the fire management response (e.g. number and type of suppression assets to dispatch) within a defined geographic area to an unplanned ignition, based on fire weather, fuel conditions, fire management objectives, and resource availability. Response levels are identified and documented in the Cody Interagency Dispatch Zone Fire Danger Operating Plan. The number and type of suppression resources dispatched to a reported fire is documented in the associated Response Plan Run cards in Appendix A.

b. Local Mobilization Plan

The Cody Interagency Dispatch Zone Mobilization Guide identifies standard procedures, which guide the operations of multi-agency logistical support activity throughout the coordination system. The Mobilization Plan is intended to facilitate interagency dispatch coordination, ensuring the timeliest and most cost-effective incident support services available are provided. Communication between Units, GACCs, State, Regional Offices and other cooperative agencies are addressed. The Mobilization Plan can be located on the Dispatch Center web site

(https://gacc.nifc.gov/rmcc/dispatch_centers/r2cdc/Mobilizaton_Guide/CDC_Mobilization_Guide.htm).

POLICY AND GUIDANCE

Interagency policy and guidance regarding the development of Fire Danger Operating Plans can be found in the <u>Interagency Standards for Fire & Aviation</u> <u>Operations</u> (Red Book). Agency-specific direction can be found in:

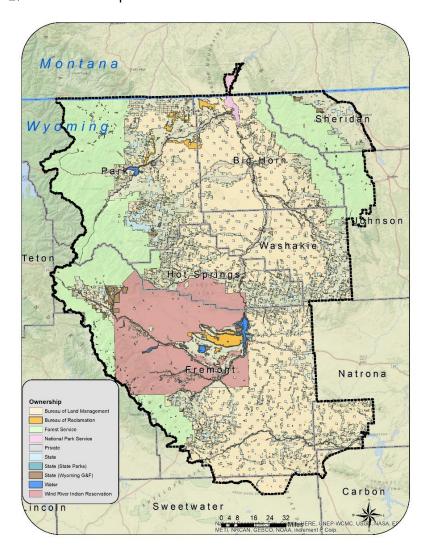
- U.S. Forest Service Manual 5120 Fire Management Preparedness
- Bureau of Land Management Manual 9211 1 Fire Planning Handbook
- National Park Service Manual 18, Chapter 5 Preparedness
- Bureau of Indian Affairs <u>Wildland Fire and Aviation Program Management</u> Operations Guide

II. FIRE DANGER PLANNING AREA INVENTORY AND ANALYSIS

ADMINISTRATIVE UNITS

This plan encompasses an area of approximately 15.2 million acres in northern Wyoming and southern Montana, with wildland fire management and suppression responsibilities shared among the BLM, USFS, NPS, Bureau of Indian Affairs (BIA), and local county and municipal cooperators. Northern Wyoming has a diverse landscape ranging from high desert to mountain peaks over 13,000 feet in elevation. Administrative units included in the Cody Interagency Dispatch Zone fire danger planning are shown in the overview map and table.

1. Overview Map



Map 1: Fire Danger Planning Area Overview

2. Ownership Table

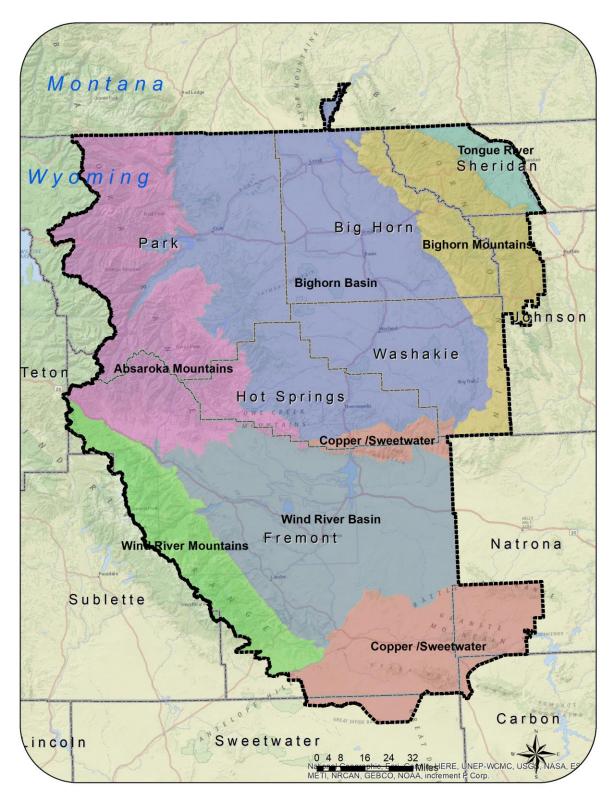
Agency	Acreage
Bureau of Indian Affairs (BIA) Wind River	
Agency	3,390,391
Bureau of Land Management (BLM) Wind	
River/Bighorn Basin District	10,650,330
USFS – Shoshone National Forest	2,466,580
USFS - Bighorn National Forest	1,115,161
Bureau of Reclamation	308,920
Wyoming State Lands	1,375,141
National Park Service – Bighorn National	
Recreation Area	116,990
Private	5,954,804
State Parks/Game & Fish	242,620
Other Ownership	233,195

Table 1: Ownership Table

FIRE DANGER RATING AREAS

A Fire Danger Rating Area (FDRA) is defined as a large geographic area relatively homogenous with respect to *climate*, *vegetation* and *topography*. Because of these similarities, it can be assumed that the fire danger within a FDRA is relatively uniform. Fire Danger Rating Areas were delineated based upon an analysis of these three factors: climate (vegetation (Appendix K), and topography (Appendix J After these environmental factors were considered, the draft FDRAs were created but not edge-matched to existing administrative boundaries. Response Zones were created within each FDRA with varying response options (Appendix A). The Shoshone and Bighorn National Forests both have similar resource benefit objectives that differ from others within the zone that create varying responses within a FDRA and may cause some initial confusion for dispatch and operational personnel. A detailed description of each FDRA is in. The final FDRA delineation is depicted below:

3. FDRA Map



Map 2: Fire Danger Rating Areas (FDRAs)

4. FDRA Table

Fire Danger Rating Area	Acreage	% of CDC Zone
FDRA 1 Absaroka Mountains	2,621,035	17
FDRA 2 Bighorn Basin	5,083,562	33
FDRA 3 Bighorn Mountains	1,511,092	10
FDRA 4 Copper/Sweetwater	1,787,353	12
FDRA 5 Tongue River	299,943	2
FDRA 6 Wind River Basin	2,831,028	19
FDRA 7 Wind River Mountains	1,109,378	7

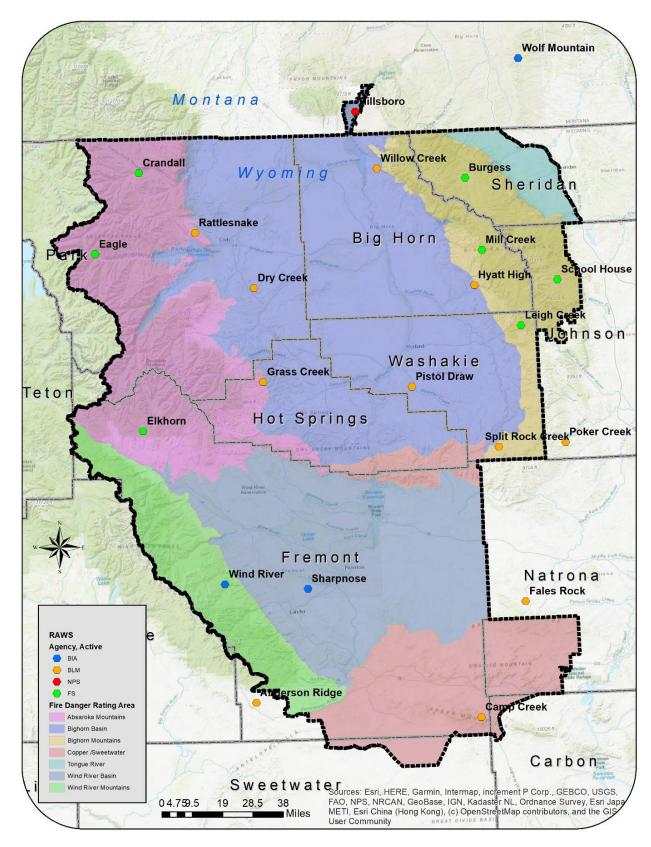
Table 2: Fire Danger Rating Areas (FDRAs)

WEATHER STATIONS

All Remote Automated Weather Stations (RAWS) comply with the National Wildfire Coordinating Group (NWCG) weather station standards. http://www.nwcg.gov/pms/pubs/PMS426-3.pdf.

Each RAWS receives, at a minimum, one annual on-site maintenance visit by either the local user or contracted personnel to ensure sensors are within calibration standards and verify site and station conditions.

5. RAWS Map



Map 3: Remote Automated Weather Stations by Owner/FDRA

6. RAWS Catalogue Table (Active Stations Only)

			AGENCY /	AVAIL DATA				REPORTING
STATION NAME	WIMS ID	NESDIS ID	OWNER	YEARS	ELEV	LATITUDE	LONGITUDE	TIME
Anderson Ridge	481903	32787280	BLM/HDD	1988-2019	8,120	42.4372	-108.9456	13
<u>Burgess</u>	480403	32304060	FS/BHF	1993-2019	7,143	44.7861	-107.5358	13
Camp Creek	482010	3278546C	BLM/WRBBD	1996-2019	7,380	42.3403	-107.5728	13
<u>Crandall</u>	480213	32353130	FS/SHF	1993-2019	6,640	44.8503	-109.6114	13
Dry Creek*	480206	32B2CAEA	BLM/WRBBD	2020+	5,520	44.3191	-108.8965	13
<u>Eagle</u>	480214	326FA142	FS/SHF	1999-2019	7,500	44.4856	-109.8964	12
<u>Elkhorn</u>	481410	323A114E	FS/SHF	1989-2019	8,085	43.6794	-109.6111	12
<u>Fales Rock</u>	481504	3265 139E	BLM/HPD	1992-2019	6,380	42.8564	-107.2722	13
Grass Creek	480804	3264C70C	BLM/WRBBD	1991-2019	7,127	43.8914	-108.8537	13
<u>Hillsboro</u>	245609	FA643096	NPS/BHNRA	2003-2019	3,986	45.1039	-108.2197	13
<u>Hyatt High</u>	480307	3264D47A	BLM/WRBBD	1992-2019	5,670	44.2986	-107.5059	13
Leigh Creek	480906	32829234	FS/BHF	1998-2019	8,202	44.1067	-107.2239	13
Mill Creek	480306	323A0238	FS/BHF	1989-2019	8,898	44.4558	-107.4494	13
<u>Pistol Draw</u>	480902	32B23A6E	BLM/WRBBD	2016-2019	4,520	43.8492	-107.9228	13
<u>Poker Creek</u>	481003	3264E1E0	BLM/HPD	1992-2019	6,440	43.5694	-106.9783	12
<u>Rattlesnake</u>	480212	3278A4E8	BLM/WRBBD	1988-2019	8,401	44.5739	-109.2614	13
School House Park	481002	3239F5B2	FS/BHF	1989-2019	8,604	44.3064	-106.9819	12
<u>Sharpnose</u>	481412	AAB716BE	BIA WRA	2016-2019	5,555	42.9489	-108.6107	13
Split Rock Creek	480904	3278B79E	BLM/WRBBD	1988-2019	6,554	43.5614	-107.3950	12
Willow Creek*	480302	32B401E8	BLM/WRBBD	2020+	4,310	44.8436	-108.0950	13
<u>Wind River</u>	481411	52117480	BIA/WRA	1911-2019	9,235	42.978	-109.1221	13
Wolf Mountain	245105	5211411A	BIA/CA	2005-2019	4,886	45.3159	-107.1634	13

Table 3: RAWS Catalogue

^{*}Willow Creek and Dry Creek RAWS were not used in the analysis as they have less than one year of data.

7. Special Interest Groups (SIGs)

Special Interest Group (SIG):	FDRA 1 Absaroka Mountains	
Station / WIMS Number	Station Name	Weight
480212	Rattlesnake	1.00
480213	Crandall	1.00
480214	Eagle	1.00
481410	Elkhorn	1.00

Table 4: FDRA #1 SIG

Special Interest Group (SIG):	FDRA 2 Bighorn Basin	
Station / WIMS Number	Station Name	Weight
480307	Hyatt High	1.00
480804	Grass Creek	1.00
480902	Pistol Draw	1.00
245609	Hillsboro	1.00

Table 5: FDRA #2 SIG

Special Interest Group (SIG):	FDRA 3 Bighorn Mountains	
Station / WIMS Number	Station Name	Weight
480306	Mill Creek	1.00
480403	Burgess	1.00
480906	Leigh Creek	1.00
481002	School House Park	1.00

Table 6: FDRA #3 SIG

Special Interest Group (SIG):	FDRA 4 Copper/Sweetwater	
Station / WIMS Number	Station Name	Weight
480904	Split Rock Creek	1.00
482010	Camp Creek	1.00
481903	Anderson Ridge	1.00
481003	Poker Creek	1.00

Table 7: FDRA #4 SIG

Special Interest Group (SIG):	FDRA 5 Tongue River	
Station / WIMS Number	Station Name	Weight
245105	Wolf Mountain	1.00

Table 8: FDRA #5 SIG

Special Interest Group (SIG):	FDRA 6 Wind River Basin	
Station / WIMS Number	Station Name	Weight
481412	Sharpnose	1.00
482010	Camp Creek	1.00
481504	Fales Rock	1.00

Table 9: FDRA #6 SIG

Special Interest Group (SIG):	FDRA 7 Wind River Mountains	
Station / WIMS Number	Station Name	Weight
481411	Wind River	1.00
481903	Anderson Ridge	1.00
481410	Elkhorn	1.00

Table 10: FDRA #7 SIG

III. FIRE DANGER WORKLOAD ANALYSIS

To apply fire danger rating as a viable decision support tool, fire managers must be able to associate fire suppression workload with specific target groups. An understanding of the specific target group from which the suppression workload originates will help determine the appropriate communication methods and deterrence measures which may effectively change the behavior of the respective target group.

IDENTIFICATION / FRAMING OF THE FIRE OCCURRENCE WORKLOAD

The ability to regulate, educate, or control a user group will be based upon the interface method and how quickly they can react to the action taken. Consequently, the most appropriate decision tool would depend upon the sensitivity of the target group to the implementation of the action. In addition, each action will result in positive and/or negative impacts to a user group. In selecting a component and/or index, several factors must be considered:

- 1. Affected Target Group: The group of people commonly associated with the problem (Agency, Industry, or Public).
 - a. **Agency**: Employees of the federal, state, and local governments involved in the cooperative effort to suppress wildland fires. This includes Federal, State, and County land management employees, along with volunteer fire departments who share a similar protection mission to manage wildland fires.
 - b. **Industry**: Employees affiliated with organizations which utilize natural resources and/or obtain permits or leases to conduct commercial activities on federal, state, or private lands. These entities or activities could include ranchers, wilderness camps, railroads, mines, timber harvesting, filming, building construction, oil and gas, electric generation, guiding services, etc.
 - c. **Public**: Individuals who use public lands for non-commercial purposes such as off-highway vehicle (OHV) use, camping, hiking, hunting, fishing, skiing, firewood gathering, agriculture, mountain biking, general travel and recreation. This group also includes those living within the wildland/urban interface (WUI).
- 2. **Workload Description**: This is the fire unit's suppression workload. Human-caused fires are usually described in terms of an ignition cause related to public and industrial target groups. Natural-caused (or lightning) fire workload is

usually described as the Agency's workload. For example, lightning is not "the problem"; rather, the problem is the local unit's ability to respond to multiple ignitions, exceeding the staffing capabilities.

FIRE WORKLOAD ANALYSIS TABLE

The ability to regulate, educate, or control a user group will be based upon the interface method and how quickly they can react to the action taken. In addition, each action will result in positive and/or negative impacts to the user groups. Consequently, the decision tool which would be most appropriate depending upon the sensitivity of the target group to the implementation of the action, and ultimately change their behavior. Table 11 illustrates the differences between target groups (Agency, Industry, and Public) and the associated fire cause.

Table 11: Planning Area Fire Workload Analysis

TA	RGET GROUP	IGN	IITION CAUSE	RELATIVE		
GENERAL	SPECIFIC	GENERAL	SPECIFIC	DEGREE OF CONTROL	COMMUNICATION METHODS	WORKLOAD DESCRIPTION
Agency	Zone Duty Officers and initial response resources	All causes	Increasing spread potential from any type of ignition	High	CDC retrieves actual and forecasted indices from WIMS and calculates the appropriate Response Level and provides that information on the Daily Report posted on the CDC website.	Adapting initial response capability to increasing ignition spread potential by automatically dispatching the number and kind of resources from Agency Run Cards.
Agency	Zone Duty Officers and initial response resources	All causes	Increasing spread potential from any type of ignition	High	CDC retrieves actual and forecasted indices from WIMS, calculates appropriate Staffing Level and provides that information on the Daily Report posted on the CDC website.	Initial response resources unavailable after work hours and/or on scheduled days off.

TA	RGET GROUP	IGN	NITION CAUSE	RELATIVE		
GENERAL	SPECIFIC	GENERAL	SPECIFIC	DEGREE OF CONTROL	COMMUNICATION METHODS	WORKLOAD DESCRIPTION
Agency	Zone Duty Officers and CDC	All Causes	Increasing spread potential for any ignition or potential for multiple ignitions	High	CDC calculates the appropriate Staffing Level and Preparedness Level and provides that information on the Daily Report posted on the CDC website. Places orders for supplemental resources as requested.	Initial response resources limited or committed to multiple fires requiring ordering of supplemental resources.
Agency	Agency Administrators, Fire Management Officers, Duty Officers, Incident Commanders and CDC	1 - Lightning	Multiple Ignitions	Moderate	CDC will communicate new ignitions to Duty Officers and Incident Commanders will coordinate command and control within their area of operations. Duty Officers will communicate resource needs to CDC.	Staffing and management of multiple ignitions requires a shift of incident coordination to a localized area of operations to reduce congestion of dispatch communications system.
Public	Day Users, Overnight Campers	4- Campfire	Unattended (and escaped) campfires in undeveloped areas and developed recreation sites.	Low	Adjective Fire Danger Rating provided on the Daily Report posted on the CDC website, communicated to multiple audiences, with Intent is to raise awareness of potential fire danger in simple, easy to understand terms via press releases, social media and Fire Danger Signs. Preparedness Level posted on the Daily	Significant number of escaped campfires at dispersed and/or developed recreation sites. Campfires are abandoned when fuels are critically dry or during wind events.

TA	TARGET GROUP IGNITION CAUSE RELATIVE					
GENERAL	SPECIFIC	GENERAL	SPECIFIC	DEGREE OF CONTROL	COMMUNICATION METHODS	WORKLOAD DESCRIPTION
					Report posted on the CDC website. which may prompt the need to consider fire restrictions.	
Public	Private Landowners	5 - Debris Burning	Trespass fires from escaped agricultural or trash burns.	Moderate	Adjective Fire Danger Rating and Preparedness Level and possibly county or agency fire restrictions	The unit is experiencing a significant number of escaped fires from agriculture or trash burns. Press Releases and social media posts in coordination with county fire wardens and National Weather Service to raise awareness for escape potential
Industry	Commercial Operations	2- Equipment	Logging and Construction	High	Contract provisions monitored and enforced by designated representative	Equipment used for logging or road construction activities starting fires during operations.
Industry	Railroads, Oil and Gas developments, Electric Utilities, Ranching Operations	9 - Miscellaneous	Sparks from trains, downed powerlines, oil/gas facility fires, hay equipment sparks.	Moderate	Mitigation requirements in Special Use Permits verified and enforced	The unit is experiencing a significant number of wildfires from a variety of industrial related activities.

Table 11: Fire Workload Analysis Table

IV. FIRE DANGER DECISION ANALYSIS

Decision points can be based upon either:

- Climatological Breakpoints, or
- Fire Business Thresholds.

The following table provides a summary of the planning area's fire danger problems and concerns. In addition, each problem is associated with a specific target group whose activities can be influenced through effective communication and implementation of specific control measures.

This Fire Danger Operating Plan will be used to support preparedness, staffing and response decisions which are made at specific decision points. A "decision point" is a point along the range of possible output values where a decision shifts from one choice to another. When the combination of events and conditions signal that it is time to do something different, a "decision point" has been identified for each Fire Danger Rating Level within each Fire Danger Rating Area.

CLIMATOLOGICAL ANALYSIS

Climatological breakpoints are points on the cumulative distribution curve of one fire weather/danger index computed from climatology (weather) without regard for associated fire occurrence/business. For example, the value at the 90th percentile ERC is the climatological breakpoint at which only 10 percent of the ERC values are greater in value.

It is equally important to identify the period or range of data analysis used to determine the agency percentiles. The percentile values for the calendar year (Jan - Dec) will be different from the percentile values for the fire season (Jun - Sept). Each agency will have specific (and perhaps different) direction for use of climatological percentiles.

The decision thresholds identified in this Fire Danger Operating Plan are based upon the statistical correlation of historical fire occurrence and weather data and, therefore, do not utilize climatological (percentiles) for decision points.

FIRE BUSINESS ANALYSIS

To apply a fire danger system which will assist managers with fire management decisions, ignition problems should be identified, quantified, framed, and associated with a target group to determine the most appropriate fire danger-based decision "tool" to mitigate any given issue.

DECISION SUMMARY TABLE

Target Group	Fire Danger Rating Area(s)	Statistical Cause	Climatologi cal Breakpoints or Fire Business Thresholds	Index / Comp	NFDRS20 16 Fuel Model	Workload Definition	Number of Decision Points	Preparedness Plan(s) to Modify Target Group Behaviour
Agency	All FDRA's	All	Fire Business Thresholds	ERC/BI	X/Y	Response Level	5	Response Plan
Agency	All FDRA's	All	Fire Business Thresholds	ERC/BI	X/Y	Staffing Level	5	Staffing Plan Draw-down Plan
Agency	All FDRA's	All	Fire Business Thresholds	ERC/IC	X/Y	Preparedness Level	5	Preparedness Plan
Public	All FDRA's	4 - Campfire	Fire Business Thresholds	ERC/IC	X/Y	Adjective Fire Danger Rating Level	5	Prevention Plan
Public	All FDRA's	5 – Debris Burning	Fire Business Thresholds	ERC/IC	X/Y	Adjective Fire Danger Rating Level	5	Prevention Plan
Industry	All FDRA's	9 - Miscellaneous	Fire Business Thresholds	ERC/IC	X/Y	Adjective Fire Danger Rating Level	5	Prevention Plan
Industry	All FDRA's	2 - Equipment	Fire Business Thresholds	ERC/IC	X/Y	Adjective Fire Danger Rating Level	5	Prevention Plan

Table 12: Decision Summary Table

V. FIRE DANGER RATING LEVELS

The NFDRS utilizes the WIMS processor to manipulate weather data and forecasted data stored in the National Interagency Fire Management Integrated Database (NIFMID) to produce fire danger ratings for corresponding weather stations. NFDRS outputs from the WIMS processor can be used to determine various levels of fire danger rating to address the fire problems identified previously in the Fire Problem Analysis Chart. The system is designed to model worst-case fire danger scenario. NFDRS (along with other decision support tools) will be utilized to produce levels (thresholds) of fire business to address local fire problems by targeting public, industrial, or agency groups.

Decision points used in this FDOP were developed using FireFamily Plus Fire Probability Analysis which correlates fire occurrence with varying fuel models and NFDRS indices. Three (3) decision points using BI-X and BI-Y and five (5) decision points using ERC-X and ERC-Y were developed for each FDRA to determine the Response (or Dispatch) Level used in the Initial Response Plan and Staffing-Drawdown Plan. Five (5) decision points, using the Response Level and fire activity and weather triggers, were developed for the Staffing Level and Staffing Index used in the Preparedness Plan. Five (5) decision points were developed using ERC-X and ERC-Y and IC-X and IC-Y to determine the Adjective Fire Danger Rating Level.

To obtain the values determining the FDRA Response Level and Staffing Index, the 3-day average ERC (current and 2 previous days ERC) and next day forecasted BI will be combined in a matrix. To obtain the values determining FDRA Preparedness Levels, the 5-day average ERC will be combined with ignition risk, critical fire weather and resource commitment. For Adjective Fire Danger Rating, the 3-day average ERC and IC will be used in a matrix.

RESPONSE (OR DISPATCH) LEVEL

Response (or Dispatch) Levels are pre-planned actions which identify the number and type of resources (engines, crews, aircraft, etc.) initially dispatched to a reported wildland fire based upon fire danger criteria.

This FDOP used a combination of ERC and BI for fuel model X-Brush or Y-timber, to determine the Response Level for each FDRA. The 3-day average ERC (current and the two previous days) and forecasted (next day) BI are combined in a matrix to determine the Response Level for each FDRA. "Run Cards" in Wildcad will then use the Response Level for each FDRA to dispatch pre-determined resources for each FDRA. See Appendix A

		FDRA 1 - /	Absaroka Mountains					
BI-Y								
34+	Low	Moderate	High	High	High			
23-33	Low	Low	Moderate	Moderate	High			
0-22	Low	Low	Low	Moderate	Moderate			
ERC-Y	0-18	19-30	31-42	43-48	49+			
	FDRA 2 - Bighorn Basin East/West							
BI-X								
111+	Low	Moderate	High	High	High			
49-110	Low	Low	Moderate	Moderate	High			
0-48	Low	Low	Low	Moderate	Moderate			
ERC- X	0-15	16-30	31-47	48-62	63+			
	•	FDRA 3 -	Bighorn Mountains					
BI-Y								
40+	Low	Moderate	High	High	High			
30-39	Low	Low	Moderate	Moderate	High			
0-29	Low	Low	Low	Moderate	Moderate			
ERC-Y	0-28	29-34	35-41	42-47	48+			
	FDRA 4 - Copper/Sweetwater							
BI-X			,					
119+	Low	Moderate	High	High	High			
69-118	Low	Low	Moderate	Moderate	High			
0-68	Low	Low	Low	Moderate	Moderate			
ERC-X	0-16	17-32	33-45	46-57	58+			
	•	FDRA	5 - Tongue River					
BI-X								
83+	Low	Moderate	High	High	High			
50-82	Low	Low	Moderate	Moderate	High			
0-49	Low	Low	Low	Moderate	Moderate			
ERC-X	0-14	15-25	26-37	38-53	54+			
		FDRA 6	- Wind River Basin					
BI-X								
137+	Low	Moderate	High	High	High			
57-136	Low	Low	Moderate	Moderate	High			
0-56	Low	Low	Low	Moderate	Moderate			
ERC-X	0-19	20-35	36-52	53-70	71+			
			/ind River Mountains					
BI-Y								
36+	Low	Moderate	High	High	High			
24-35	Low	Low	Moderate	Moderate	High			
0-23	Low	Low	Low	Moderate	Moderate			
ERC-Y	0-21	22-33	34-47	48-52	53+			
L	1			1				

Table 13. Response Level Matrix

STAFFING LEVEL

Staffing Levels will be used to make daily internal fire preparedness and operational decisions. At the protection unit level, the staffing level can form a basis for decisions regarding the "degree of readiness" for initial attack resources and support resources. Specific preparedness actions are defined at each staffing level. Although Staffing Level can be a direct output in WIMS, the WIMS output is only based upon weather observations and climatological percentiles. The use of climatological percentiles for daily staffing decisions is optional. The preferred method to delineate Staffing Level thresholds is based on statistical correlation of weather AND fire occurrence.

For this plan, calculation of the Staffing Level begins with the Response Level. For any Response Level the corresponding Staffing Level is determined by taking into consideration two additional factors:

- 1. Fire activity, including prescribed fire that has greater than 50% resource commitment of local resources within the FDRA and,
- 2. Triggers forecasted to occur within the FDRA and associated Fire Weather Zone within the next 24-hour period.
 - Triggers (1 or more):
 - o LAL 4, 5 or 6
 - o Haines 6
 - Red Flag Warning or Fire Weather Watch tomorrow

		All FDRA's					
Response Le	vel	1-1	Low	2- Mc	derate	3 – F	ligh
Fire Activity	No	SL 1	SL 2	SL 2	SL 3	SL 3	SL 4
	Yes	SL 2	SL 3	SL 3	SL 4	SL 4	SL 5
Weather Trigger		No	Yes	No	Yes	No	Yes

Table 14. Staffing Level Matrix

PREPAREDNESS LEVEL

The Preparedness Level is a five-tier (1-5) fire danger rating decision tool that is based on NFDRS output(s) and other indicators of fire business (such as ignition risk (LAL), critical fire weather forecasted and projected levels of resource commitment). Preparedness Levels will assist fire managers with more long-term (seasonal) decisions with respect to fire danger.

To determine Preparedness Level by FDRA or Zone, use the following chart:

- 1. Check the appropriate box for the current observed ERC range for each FDRA and follow the arrows to determine each FDRA Preparedness Level.
- 2. Check the appropriate box with the maximum number of boxes checked and then follow the arrows to the appropriate Zone Preparedness Level.

ERC										
Breakpoints		1	2	2		3		4		5
FDRA 1 Absaroka Mountains	_	-18 		-30	_	- 42		3-48 □		49+ □
FDRA 2 Bighorn Basin ERC-X		.15 	16 ·	- 30		- 47		B- 62 □		63 +
FDRA 3 Bighorn Mountains ERC-Y		28	29 .	- 34		- 41		2-47 □		48+ □
FDRA 4 Copper/ Sweetwater ERC-X]	-16 			[-45 		5- 57		58+
FDRA 5 Tongue River ERC-X	[14			[- 37		B-53 □		54+ □
FDRA 6 Wind River Basin ERC-X		·19 □	20 -	- 35		- 52		3-70 □		71+
FDRA 7 Wind River Mountains ERC-Y		21	22 .	- 33		- 47		B- 52 □		53+
Staffing Index by FDRA or max Index for Zone		1		2		3		4		5
Ignition Risk Low = LAL 1-3 High = LAL 4-6 (Next 72 hrs)	Low/ High	High	Low	High	Low	High	Low	High	Low	High
Critical Fire Weather in next 72 hrs (HI=6, FWW, RFW (next 72 hrs)	Yes/No	No	Yes	No	Yes	No	Yes [No	Yes	No/ Yes
Resources Committed > 50%	No 🗆	Yes	No 	Yes	No]	Yes	No	Yes	No,	/Yes
FDRA Preparedness Level		"					_		v	

Table 15 FDRA Preparedness Level Matrix

CDC Zone PL from CDC Mob Guide	All FDRA's Low to Moderate	2+ FDRA's Moderate to High	2+ FDRA's High to Very High	3+ FDRA's Very High to Extreme	Majority of FDRA's are Very High to Extreme
Zone Preparedness Level		= 0	= 0	IV	v □

Table 16. CDC Zone Preparedness Level Matrix

FIRE DANGER ADJECTIVE RATING LEVEL

In 1974, the Forest Service, Bureau of Land Management and State Forestry organizations established five standard Adjective Fire Danger Rating Levels descriptions for public information and signing.

As with Response Level and Preparedness Level, the Adjective Fire Danger Rating Level can be obtained as a direct output in WIMS; however, the Adjective Rating from WIMS is strictly based on weather and climatological percentiles (80th/95th or 90th/97th) with no regard to historical fire occurrence. The use of agency-specific climatological percentiles is not mandatory. The preferred method to determine Adjective Fire Danger Rating thresholds based on statistical correlation of weather observations AND fire occurrence. This FDOP will implement Adjective Fire Danger Rating based upon fire business thresholds, not climatological percentiles.

In addition to the Staffing Index calculated from ERC-X or ERC-Y, this FDOP uses Ignition Component for fuel model X or Y to calculate the adjective Fire Danger Rating Level. The 3-day average ERC and IC values (current and two previous days values) will be used to calculate fire danger for each FDRA.

FDRA 1 Absaroka Mountains							
3-day AVG ERC-Y Staffing Index		Fire Danger Adjective Rating					
0-18	Low	Low	Low	Moderate	Moderate		
19-30	Low	Moderate	Moderate	Moderate	High		
31-42	Moderate	Moderate	High	High	Very High		
43-48	Moderate	High	Very High	Very High	Extreme		
49+	High	Very High	Very High	Extreme	Extreme		
3-day AVG IC-Y	0-3 4-15 16-29 30-40 41+						
FDRA 1 Bighorn Basin							
3-day AVG ERC -X Staffing Index		Fire	Danger Adjective Rat	ing			
0-15	Low	Low	Low	Moderate	Moderate		
16-30	Low	Moderate	Moderate	Moderate	High		
31-47	Moderate	Moderate	High	High	Very High		
48-62	Moderate	High	Very High	Very High	Extreme		
63+	High	Very High	Very High	Extreme	Extreme		
3- day AVG IC-X	0-8	9-17	18-24	25-36	37+		

	FDRA 3 Bighorn Mountains							
3- day AVG ERC-Y	3- day AVG ERC-Y Fire Danger Adjective Rating							
Staffing Index			. 0,	· ·				
0-28	Low	Low	Low	Moderate	Moderate			
29-34	Low	Moderate	Moderate	Moderate	High			
35-41	Moderate	Moderate	High	High	Very High			
42-47	Moderate	High	Very High	Very High	Extreme			
48+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-Y	0-5	6-19	20-34	35-44	45+			
		FDRA 4 Coppe	r/Sweetwater					
3-day AVG ERC-X Staffing Index		Fire	Danger Adjective Rat	ing				
0-16	Low	Low	Low	Moderate	Moderate			
17-32	Low	Moderate	Moderate	Moderate	High			
33-45	Moderate	Moderate	High	High	Very High			
46-57	Moderate	High	Very High	Very High	Extreme			
58+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-Y	0-10	11-16	17-24	25-36	37+			
FDRA 5 Tongue River								
3-day AVG ERC-X								
Staffing Index	Fire Danger Adjective Rating							
0-14	Low	Low	Low	Moderate	Moderate			
15-25	Low	Moderate	Moderate	Moderate	High			
26-37	Moderate	Moderate	High	High	Very High			
38-53	Moderate	High	Very High	Very High	Extreme			
54+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-Y	0-5	6-10	11-19	20-38	39+			
		FDRA 6 Wind	d River Basin					
3-day AVG ERC-X Staffing Index		Fire	Danger Adjective Rat	ing				
0-19	Low	Low	Low	Moderate	Moderate			
20-35	Low	Moderate	Moderate	Moderate	High			
36-52	Moderate	Moderate	High	High	Very High			
53-70	Moderate	High	Very High	Very High	Extreme			
71+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-X	0-12	13-18	19-29	30-40	41+			
•			iver Mountains					
2 day AVC EBC V								
3-day AVG ERC-Y Staffing Index		Fire	Danger Adjective Rat	ing				
O-21	Low	Low	Low	Moderate	Moderate			
22-33		Moderate						
22-33 34-47	Low		Moderate	Moderate	High Vory High			
34-47 48-52	Moderate	Moderate	High Von High	High Von High	Very High			
	Moderate	High	Very High	Very High	Extreme			
53+	High 0-5	Very High 6-15	Very High	Extreme	Extreme			
3-day AVG IC-Y	U-5	6-15	16-32	33-43	44+			

Table 17. Adjective Fire Danger Rating Matrix

VI. FIRE DANGER OPERATING PROCEDURES

A. ROLES AND RESPONSIBILITIES

1. Agency Administrators

Approves plans, fire restrictions and closures as appropriate.

2. Fire Program Managers

Unit Fire Program Managers for each cooperating agency within the CIDC Zone will utilize this Fire Danger Operating Plan and NFDRS outputs as a tool in developing appropriate decision criteria for establishing appropriate fire related actions. It is the

responsibility of the Unit Fire Managers to ensure this plan is utilized, maintained, and communicated.

3. Fire Danger Technical Group

Each participating agency will be responsible for providing an NFDRS technical specialist to participate in the maintenance, review, and update of this plan. The technical specialists will monitor NFDRS to ensure validity, coordinate/communicate any problems, review plan implementation, coordinate revisions, present the plan as needed, and be available for NFDRS technical consultation. Specific items to be monitored are hourly station observations are accurately archived in WIMS, snow flag is turned off and on as appropriate, maintenance is occurring annually and proposing new sites where appropriate.

Agency	Technical Specialist
Cody Interagency Dispatch Center	Hal Bromley
Shoshone National Forest	Clint Dawson
Bighorn National Forest	Kevin Hillard
Wind River/Bighorn Basin BLM	Joel Peters
Wind River Agency	Cheryl Bright
Bighorn Canyon Recreation Area – NPS	Chip Collins

Table 18. FDOP Technical Specialists

4. Fire Weather Station Owners/Managers

Station Point of Contact (POC) are responsible for coordinating and/or accomplishing the following for their respective RAWS:

- Annual maintenance and updating/reporting in WIFM
- First responder services
- Ensuring quality data collection

WIMS owners are responsible for coordinating or accomplishing the following for their respective RAWS stations:

- Validating seasonal Snow Flags
- Validating and/or updating Staffing Index breakpoints

Station Name	WIMS ID	Agency/Owner	WFMI POC	WIMS Owner	WIMS Owner Id
Anderson Ridge	481903	BLM/HDD	Phil Lockwood	Mike Wengert	mwengert
Burgess	480403	FS/BHF	Kevin Hillard	Clint Dawson	clintdawson
Camp Creek	482010	BLM/WRBBD	Jamie Geerdes	Katie Williamson	kwilliamson
Crandall	480213	FS/SHF	Clint Dawson	Clint Dawson	clintdawson
Eagle	480214	FS/SHF	Clint Dawson	Clint Dawson	clintdawson
Elkhorn	481410	FS/SHF	Clint Dawson	Clint Dawson	clintdawson
Fales Rock	481504	BLM/HPD	Zeb McWilliams	Eric Chapman	echapman

Grass Creek	480804	BLM/WRBBD	Rance Neighbors	Katie Williamson	kwilliamson
Hillsboro	245609	NPS/BHNRA	Eric Neiswanger	Clint Dawson	clintdawson
Hyatt High	480307	BLM/WRBBD	Rance Neighbors	Katie Williamson	kwilliamson
Leigh Creek	480906	FS/BHF	Jon Warder	Clint Dawson	clintdawson
Mill Creek	480306	FS/BHF	Jon Warder	Clint Dawson	clintdawson
Pistol Draw	480902	BLM/WRBBD	Rance Neighbors	Katie Williamson	kwilliamson
Poker Creek	481003	BLM/HPD	Zeb McWilliams	Eric Chapman	echapman
Rattlesnake	480212	BLM/WRBBD	Tim Haas	Katie Williamson	kwilliamson
School House Park	481002	FS/BHF	Jon Warder	Clint Dawson	clintdawson
Sharpnose	481412	BIA WRA	Dana Cook	Clint Dawson	clintdawson
Split Rock Creek	480904	BLM/WRBBD	Rance Neighbors	Katie Williamson	kwilliamson
Wind River	481411	BIA/WRA	Robert Jones	Clint Dawson	clintdawson
Wolf Mountain	245105	BIA/CA	Randy PrettyOnTop		Apollock
Willow Creek	480302	BLM/WRBBD	Tim Haas	Katie Williamson	kwiliamson
Dry Creek	480206	BLM/WRBBD	Tim Haas	Katie Williamson	kwilliamson

Table 19: RAWS POC/Owner

5. Dispatch/Communication Center

Cody Interagency Dispatch Center is responsible for daily monitoring, publishing all-weather station inputs, and posting of fire danger outputs. Fire weather forecasts and NFDRS output information is to be disseminated to all firefighting personnel as follows:

- The morning fire weather planning forecast is available to all resources on the web; if needed, field units may request this information via radio from CDC.
- The afternoon fire weather planning forecast will be broadcast upon request from resources in the field. NFDRS outputs, specifically ERC values and percentile and Fire Danger Rating will be posted, during peak fire season (June – September).
- Review all inputs for each station for accuracy and assure there are no missing station observations. The WFMI POC will be contacted for stations with missing or questionable data.
- Maintain weather station catalogues in WIMS.
- Provide adequate training to dispatch personnel that will be editing and validating WIMS inputs/outputs.
- Contact appropriate WIMS Station owners to obtain WIMS access for current dispatch personnel.
- Enter snow flags (Y or N), Verify with agency technical specialists prior to changing snow flag value.

6. Duty Officers

A Duty Officer is defined as an FMO, AFMO, FOS, or whoever the local unit designated who can provide input and guidance regarding planning and dispatch levels. Duty Officers are responsible for the implementation of this plan; ensuring decisions are consistent with the intent of the plan. It is the Duty Officers role to interpret and modify response, staffing and daily preparedness levels as required by factors not addressed by

this plan. Modifications of the preparedness and/or dispatch levels must be coordinated through the Dispatch Center Manager or acting. Duty Officers will assure that their personnel understand NFDRS outputs and how to apply them to daily operations. These indices and their implications to the day's operations can be discussed each morning by all field personnel as part of their daily briefings.

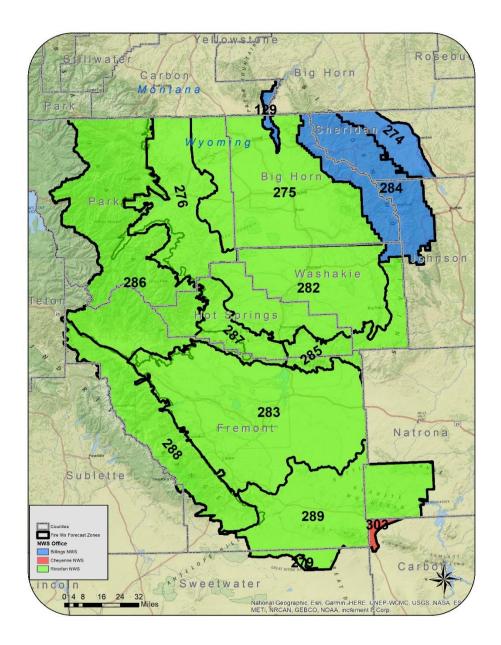
7. GIS Specialists

Assist with mapping needs as requested.

8. National Weather Service

Weather planning forecasts and products are provided by three National Weather Service Offices, Cheyenne, Riverton, and Billings.

The National Weather Service in Riverton is responsible for providing fire weather support for western-central-northern Wyoming. Its area of responsibility covers Wyoming fire weather zones 275 through 283, 285 through 289, 300. The National Weather Service in Billings is responsible for providing fire weather support for the Bighorn Forest, Sheridan County and the Bighorn Canyon Recreation Area, zones 129, 284 and 274. The National Weather Service in Cheyenne is responsible for providing fire weather support for south central and eastern Wyoming, covering zone 303 within the Cody Dispatch Zone.



Map 4: NWS Fire Weather Forecast Zones and Forecast Office

9. Geographic Area Predictive Service / Meteorologist

Rocky Mountain Area Predictive Services provides decision support for operational management and strategic planning for firefighting resources. Specific needs can be coordinated directly with RMA PS. Products that can be used in conjunction with this plan are below:

Seasonal Outlook for Rocky Mountain Area

7-Day Fire Weather Outlook for Rocky Mountain Area

National 7-Day Fire-Potential Outlook

Rocky Mountain Area NFDRS RAWS Graphs by PSA

10. Education / Mitigation / Prevention Specialists

Education and Mitigation Specialists can use this plan to keep the general public, industry and landowners informed of fire danger throughout the fire season. Information to be provided include press releases, social media posts, website posts, posters and public contacts.

Changes in adjective fire danger ratings will be communicated to agency PIO's.

Agencies will be responsible for accurately reflecting fire danger on their own fire danger signs throughout the zone.

As fire danger increases, each agency will be responsible for prevention activities and will coordinate restrictions with adjacent agencies.

11. Fire Danger Technical Group

Annually review this plan and update as necessary.

B. SEASONAL SCHEDULE

Annually, by November 1, CDC will check that all weather station catalogues show an appropriate freeze date for Fuel Model G and by April 1, CDC will check that all weather station catalogues have appropriate pre-green dates and by June 15, CDC will check that all stations will have appropriate green-up dates for Fuel Model G. Once Fuel Model G is no longer used, this task will no longer be necessary.

C. DAILY SCHEDULE

Cody Dispatch Center follows a daily operating checklist which identifies processes and procedures for implementation of this FDOP.

D. WEATHER STATION MONITORING AND MAINTENANCE

Each agency is responsible for the annual maintenance and calibration of their RAWS. The Remote Sensing Fire Weather Support Unit (RSFWSU) located at the National Interagency Fire Center (NIFC) maintains an inventory of and calibrates all sensors for permanent RAWS owned by the USFS and NPS units. RSFWSU also provides annual scheduled onsite maintenance for permanent BLM RAWS and first responder services for malfunctions of these stations. Portable BLM RAWS must be sent to RSFWSU for annual maintenance. USFS

and NPS units must request scheduled exchange of calibrated RAWS sensors from RSFWSU and replace these sensors on site while performing annual maintenance.

Forest Technology Systems (FTS) maintains an inventory of and calibrates all sensors for permanent RAWS owned by RAWS units. FTS also provides annual scheduled onsite maintenance for permanent BIA RAWS, and first responder services for malfunctions of these stations. For portable RAWS, USFS units must send schedules RAWS sensors direct to FTS for calibration and repair during annual maintenance. USFS must provide first responder services for their portable stations.

STATION NAME	WIMS ID	AGENCY / OWNER	RSFWU	FTS	First Responder
Anderson Ridge	481903	BLM/HDD	Full maintenance on site		RSFWSU
Burgess	480403	FS/BHF	Sensor calibration and exchange		Agency
Camp Creek	482010	BLM/WRBBD	Full maintenance on site		RSFWSU
Crandall	480213	FS/SHF	Sensor calibration and exchange		Agency
Eagle	480214	FS/SHF	Sensor calibration and exchange		Agency
Elkhorn	481410	FS/SHF	Sensor calibration and exchange		Agency
Grass Creek	480804	BLM/WRBBD	Full maintenance on site		RSFWSU
Hillsboro	245609	NPS/BHNRA	Sensor calibration and exchange		Agency
Hyatt High	480307	BLM/WRBBD	Full maintenance on site		RSFWSU
Leigh Creek	480906	FS/BHF	Sensor calibration and exchange		Agency
Mill Creek	480306	FS/BHF	Sensor calibration and exchange		Agency
Pistol Draw	480902	BLM/WRBBD	Full maintenance on site		RSFWSU
Rattlesnake	480212	BLM/WRBBD	Full maintenance on site		RSFWSU
School House Park	481002	FS/BHF	Sensor calibration and exchange		Agency
Sharpnose	481412	BIA WRA		Full maintenance on site	FTS

Split Rock Creek	480904	BLM/WRBBD	Full maintenance on site		RSFWSU
Wind River	481411	BIA/WRA		Full maintenance on site	FTS
Wolf Mountain	245105	BIA/CA		Full maintenance on site	FTS
Poker Creek	481003	BLM/HPD	Full maintenance on site		RSFWSU
Fales Rock	481504	BLM/HPD	Full maintenance on site		RSFWSU
BHF1 Portable		FS/BHF	Sensor calibration and exchange		Agency
Micro BLM #1 (Worland)		BLM/WRBBD	All maintenance at RSFWSU		Agency
SHF1 - FTS		FS/SHF	Sensor calibration and exchange		Agency
SHF2 - Portable		FS/SHF	Sensor calibration and exchange		Agency
SHF4 FTS Portable		FS/SHF	Sensor calibration and exchange		Agency
SHF5 Portable		FS/SHF	Sensor calibration and exchange		Agency
WRBB Port #1			All maintenance at RSFWSU		Agency
WRBB Port #2			All maintenance at RSFWSU		Agency
Willow Creek	480302	BLMWRBBD	Full maintenance on site		RSFWSU
Dry Creek	480206	BLMWRBBD	Full maintenance on site		RSFWSU

Table 20. RAWS Owner and Maintenance Method

VII. FIRE DANGER PROGRAM NEEDS

A. WEATHER STATIONS

- Maintain all weather stations utilized for this analysis to NFDRS standards. Monitor station observations and input missing data into WIMS to maintain station integrity for future updates or analysis.
- Continue monitoring if current stations are adequately collecting dispatch zone climatological data. Consider additional stations in area's not well represented by current stations (i.e. FDRA 5 Tongue River, FDRA 6 Wind River Basin).
- The BLM have installed two new stations within FDRA2 Bighorn Basin, Willow Creek RAWS, July 2020– NW corner of the FDRA and Dry Creek, May 2020, south of Cody. Consider utilizing these stations in future analysis when they have 5-years + observations.

B. DATA MANAGEMENT

- Ensure fire report data is accurately reviewed and reported in the appropriate agency databases. Each agency program managers shall monitor the fire data annually for accuracy and completeness.
- Consider utilizing county fire occurrence data for future analysis to depict the full fire occurrence picture within each FDRA.

C. TRAINING

- All fire personnel should be trained at annual fire refreshers on the basic understanding of NFDRS and the use of pocket cards and/or seasonal trend analysis.
- Maintain one to two individuals per agency with RAWS maintenance training when the
 agency is responsible for first responder and annual maintenance. Consider additional
 hands-on training to provide additional first responder capacity within the zone.
- Ensure at least one individual at CDC, and each agency representative attends S-491 Intermediate National Fire Danger Rating System once updated with NFDRS 2016. To increase capacity, send more individuals to the training.
- Maintain at least one individual from the Fire Danger Technical Group, having taken the Advanced National Fire Danger Rating System. Each agency representative should have taken the advanced course. To increase capacity, send more individuals to the training.
- Provide NFDRS training to area cooperators for awareness and understanding of its use and capability.

D. PARTNERSHIPS

• Recommend integrating all fire managers and suppression resources within the CDC Zone NFDRS planning process including all cooperators and other state agencies.

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Appendix A RESPONSE PLAN

Low-level initial Pre-planned Response Plans, also referred to as "Run Cards", specify the fire management response (e.g. number and type of suppression resources to dispatch) within a defined geographic area to an unplanned ignition, based on fire weather, fuel conditions, fire management objectives, and resource availability.

Response Level

Response levels (e.g. "Low", "Moderate", and "High") are established to assist fire managers with decisions regarding the most appropriate response to an initial fire report until a qualified Incident Commander arrives at the incident. Response Level thresholds were determined using FireFamilyPlus. A statistical analysis of fire occurrence and historical weather was completed for each FDRA. This plan uses a combination of ERC and BI for fuel model X/Y- Brush/Timber, to determine the Response Level for each FDRA. ERC values calculated as a 3-day average, using current day and previous 2 days to calculate. For BI, the forecasted values for next day will used. Each agency will use the same Response Levels calculated for each FDRA in response to all wildland fires within the dispatch zone.

Response Levels will be established for each day utilizing the Response Level matrix. Each FDRA has an assigned Special Interest Group (SIG) for the purposes of calculating the daily response level (see Appendix G for analysis and decision point range determinations).

Duty officers retain the discretion to set their unit to a different response level than indicated by the calculated value for any given fire day, or to modify the response level for any given incident.

FDRA	Effective Dates
FDRA 1 – Absaroka Mountains	June 1 -October 31
FDRA 2 – Bighorn Basin	March 1 – October 31
FDRA 3 – Bighorn Mountains	June 1 – October 31
FDRA 4 – Copper/ Sweetwater	May 1 – October 31
FDRA 5 - Tongue River	March 1 – October 31
FDRA 6 – Wind River Basin	March 1 – October 31
FDRA 7 – Wind River Mountains	June 1 – October 31

Table 1: Response Plan Effective Dates

Outside the effective dates, notification of smoke reports will be made directly to the appropriate jurisdictional duty officer.

FDRA 1 - Absaroka Mountains										
BI-Y										
34+	Low	Moderate	High	High	High					
23-33	Low	Low	Moderate	Moderate	High					
0-22	Low	Low	Low	Moderate	Moderate					
ERC-Y	0-18	19-30	31-42	43-48	49+					
	FDRA 2 - Bighorn Basin East/West									
BI-X										
111+	Low	Moderate	High	High	High					
49-110	Low	Low	Moderate	Moderate	High					
0-48	Low	Low	Low	Moderate	Moderate					
ERC- X	0-15	16-30	31-47	48-62	63+					
		FDRA	3 - Bighorn Mountains							
BI-Y										
40+	Low	Moderate	High	High	High					
30-39	Low	Low	Moderate	Moderate	High					
0-29	Low	Low	Low	Moderate	Moderate					
ERC-Y	0-28	29-34	35-41	42-47	48+					
		FDRA 4	4 - Copper/Sweetwate	r						
BI-X										
119+	Low	Moderate	High	High	High					
69-118	Low	Low	Moderate	Moderate	High					
0-68	Low	Low	Low	Moderate	Moderate					
ERC-X	0-16	17-32	33-45	46-57	58+					
		FD	RA 5 - Tongue River							
BI-X										
83+	Low	Moderate	High	High	High					
50-82	Low	Low	Moderate	Moderate	High					
0-49	Low	Low	Low	Moderate	Moderate					
ERC-X	0-14	15-25	26-37	38-53	54+					
		FDRA	A 6 - Wind River Basin							
BI-X										
137+	Low	Moderate	High	High	High					
57-136	Low	Low	Moderate	Moderate	High					
0-56	Low	Low	Low	Moderate	Moderate					
ERC-X	0-19	20-35	36-52	53-70	71+					
		FDRA 7	- Wind River Mountai	ns						
BI-Y										
36+	Low	Moderate	High	High	High					
24-35	Low	Low	Moderate	Moderate	High					
0-23	Low	Low	Low	Moderate	Moderate					
ERC-Y	0-21	22-33	34-47	48-52	53+					

Table 2: Response Level Matrix

The run cards will be used when a wildfire is reported within the effective dates and doesn't meet the discretionary smoke report criteria listed below. Using the reported information, dispatch will plot the fire location, determine the closest forces, and dispatch the appropriate resources per the run card. After the initial dispatch of resources, all affected duty officer's will be notified. Once a qualified Incident Commander (IC) arrives at the incident and completes an initial size-up, the appropriate jurisdictional duty officer will be assigned.

Procedures

During business hours, the dispatch center will dispatch the closest available resource based on the Response Level for that day.

After hours, the dispatch center will contact the appropriate jurisdictional duty officer, and they will determine the appropriate response.

Discretionary Smoke Reports:

When any of the following smoke reports are received, the response will not follow the run card and the jurisdictional duty officer will be contacted to determine the appropriate response.

- Federal Aviation Administration (FAA) report
- Abandoned campfires when information states the fire is within the fire ring
- Incidents that local VFD's have responded too and are on scene requesting no additional resources.

Lightning Plan

Periodically the dispatch zone gets widespread lightning activity resulting in numerous fire starts, more common in the basins but could occur elsewhere. When this occurs, it is not possible to dispatch the number and type of resources called for on the run card to each fire.

Under circumstances where multiple fire starts are occurring or likely to occur (forecasted LAL=6) and the FDRA is at a response level of moderate to high, the run card system can be suspended and guidance provided by the appropriate jurisdictional duty officer for initial response to new starts. For large areas, it is desired that this occur at the LMAC level, so the effort is coordinating between dispatch and the agency duty officers.

Duty officers should consider the following priorities for resource allocation during lightning mode:

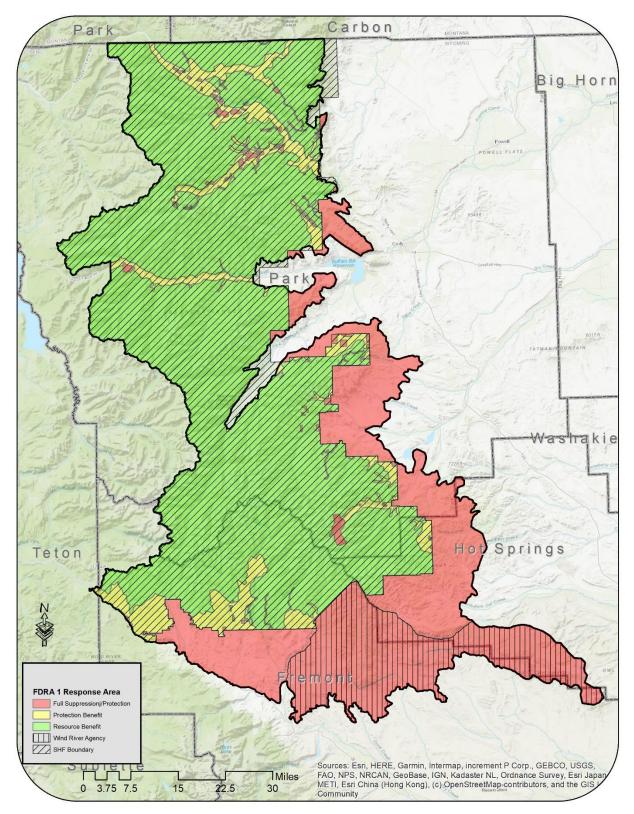
- 1. Direct threat to human life
- 2. Direct threat to homes or communities
- 3. Direct threat to other high value infrastructure or improvements
- 4. Threat to identified sage grouse protection area's
- 5. Other threats

Until such time as duty officers are able to provide coordinated direction to the dispatch center, the dispatch supervisor in charge is authorized to determine the fire priorities based on given direction and to make modifications to the run card response during multiple start events.

During circumstances where there are no longer resources available to be dispatched to a new smoke report, the dispatch center will notify the appropriate duty officer of each new report. Duty officers will consider the above priorities and make the determination of staffing adjustments and provide guidance to the dispatch center for any new fire starts.

					Dispatch Acti	on Based on Res	ponse Level	
FDDA 1 AI	haa walta	BI-Y			_			
FDRA 1 Al		34+	Lov	N	Moderate	High	High	High
Mounta	ins IA	23-33	Lov		Low	Moderate	Moderate	High
Respons	e Plan	0-22	Lov		Low	Low	Moderate	Moderate
		ERC-Y	0-1	.8	19-30	31-42	43-48	49+
Basaw					0.40	derate	110	a la
Resou IA Squad/Eng			ow ond 1			pond 1	Hig Respo	_
T4, or T6 with		Kesp	onu 1		Kes	poliu 1	Respo	Jilu Z
ICT4	11013						Respo	and 1
ICT3							пеэр	JIIG 1
Helicopter							Respond 1	if in zone
Air Attack w/	ATGS						Respond 1	
Dozer							порода	
SEAT(s)								
Air Tanker								
Respo	ond	Resource	s will p	roce	ed directly to t	he incident at the	direction of Cody	Dispatch.
Noti	fy	Jurisdicti	onal Di	uty O	fficer and coun	ty dispatch if nea	r protected values	S.
		Speci	ial Inst	ructio	ons for Dispato	h/Areas of Conce	ern	
Reference Sh	oshone Nat	ional Fore	st Prep	ared	ness, Staffing a	ınd Wildfire Resp	onse Guide for sp	ecific actions
						nagement Plan.		
On Wind Rive						is not applicable		
		•			•		o three fire planning ur ons. The strategic objec	•
							κ; administrative and ju	•
	responsibiliti	es; weather,	fire beha	avior, f	uels and fire histor	y characteristics; acco	ess; and logistical supp	ort requirements.
	Strateg	ic Objectiv		_		Response (•	
	_	Full			•	sed on the safest, mo as quickly as possible	st effective, and cost-	efficient actions to
		ion/Resou	rce	contan	in and control mes	as quickly as possible	•	
Within		tection		Protoc	t values identified	in the Ferest Plan as	well as adjacent private	a proporty or other
Shoshone		e Protection Protection	,				d time of year resource	
National						tion with protection o	•	
Forest boundary	Resou	rce Benefit	,	_	, ,	•	ce benefit objectives. o be protected with po	,
utilize the					tion strategies.	ined that may need to	be protected with po	int or zone
following							accomplish resource	
special instructions.						•	nsist of the safest and es that are threatening	
					· ·		fects of fire when poss	
Outside		-					iate actions that prote	
Shoshone NF		•	•				ell as adjacent private ${}_{\parallel}$ of the fire and the caus	• •
the strategic objective is full							protection objectives.	se, there may be an
suppression		-					es to be protected fro	
/resource	-				_	=	tives. The assessment	
protection.		-					ommensurate with the s to receive a suppress	
	1		-			•	ill receive a suppression	·
			-	-			oportunities to manage	_
	-		-	-			egic area is comprised and impacts to resour	•
	_				•		may need to be protect	
						•	on strategies. Fires can	_
		_			-	-	eventually be threaten hat consider the proba	
	manage fire for resource benefit objectives include long-term fire assessments that consider the probability of a fi reaching distant values and the probability of success in protecting the values.						,	÷

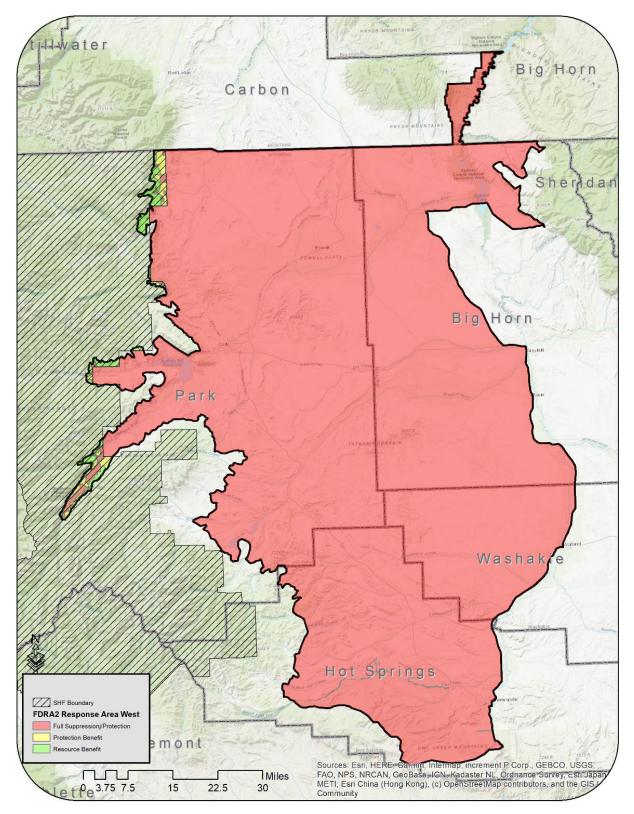
Table 3: FDRA 1 Response Action



Map 1. FDRA 1 Response Plan Map

		Dispatch Action Based on Response Level							
		BI-X		Dispatch Actio	n baseu on kesp	onse Levei			
FDRA 2 B	ighorn		Law	D. Contours	High	Himb	Hinda		
	_	111+	Low	Moderate	High	High	High		
Basin IA		49-110	Low	Low	Moderate	Moderate Moderate	High Moderate		
Response	e Plan	0-48 ERC-X	0-15	Low 16-30	Low 31-47	48-62	63+		
		ERC-X	0-15	16-30	31-47	48-62	63+		
Resour	ces	L	ow	Mod	erate	Hi	gh		
IA Squad/Eng	ine – T3,	Resp	ond 1	Resp	ond 1	Respo	ond 2		
T4, or T6 with	n ICT5								
ICT4				Resp	ond 1	Respo	ond 1		
ICT3									
Helicopter						Respond 1			
Air Attack w/	ATGS					Respond 1			
Dozer						Respond 1	l if in zone		
SEAT(s)									
Air Tanker									
Respo	nd		•	•	incident at the ownith Cooperator	direction of Cody s.	Dispatch.		
Notif	fy		-			protected values			
		Spec	ial Instructi	ons for Dispatch	/Areas of Conce	rn			
	objectives for options are	or wildfire res based on the	ponse. Each str Forest Plan goa	rategic objective (SC als and resource obj) has response option ectives; values at risk	three fire planning un ns. The strategic object; ; administrative and ju ss; and logistical supp	ctive response urisdictional		
	Strate	gic Objectiv			Response C	•			
		Full			ed on the safest, mos s quickly as possible.	st effective, and cost-	efficient actions to		
		sion/Resou otection	irce	in and control mes a	s quickly as possible.				
Within		ce Protecti	on Protec	t values identified i	the Forest Plan as w	vell as adiacent private	e property or other		
Shoshone National		or Benefit	owner	Protect values identified in the Forest Plan as well as adjacent private property or other ownerships. Depending on location, cause, and time of year resource benefit objectives are an option in combination with protection objectives.					
Forest boundary	Resou	ırce Benefi	•		•	ce benefit objectives. be protected with po	•		
utilize the				ction strategies.	•				
following special						accomplish resource			
instructions.	-				•	sist of the safest and s that are threatening			
					•	ects of fire when poss			
Outside						ate actions that prote			
Shoshone NF		•	-			ell as adjacent private of the fire and the caus			
the strategic objective is full		-				rotection objectives.	se, there may se an		
suppression		•				es to be protected fro			
/resource				_	-	tives. The assessment	-		
protection		-				mmensurate with the to receive a suppress			
	directed oth	nerwise. Huma	an caused fires	are classified as an	unwanted fire and wi	Il receive a suppression	on response.		
		•			- :	portunities to manage	_		
			-			egic area is comprised and impacts to resour			
	_			•		may need to be prote			
	backcountry	y are often iso	lated and can b	oe protected with po	oint or zone protection	n strategies. Fires can	n be long-term		
		_		•	•	eventually be threater			
	manage fire for resource benefit objectives include long-term fire assessments that consider the probability of a fire reaching distant values and the probability of success in protecting the values.						Jointy of a file		

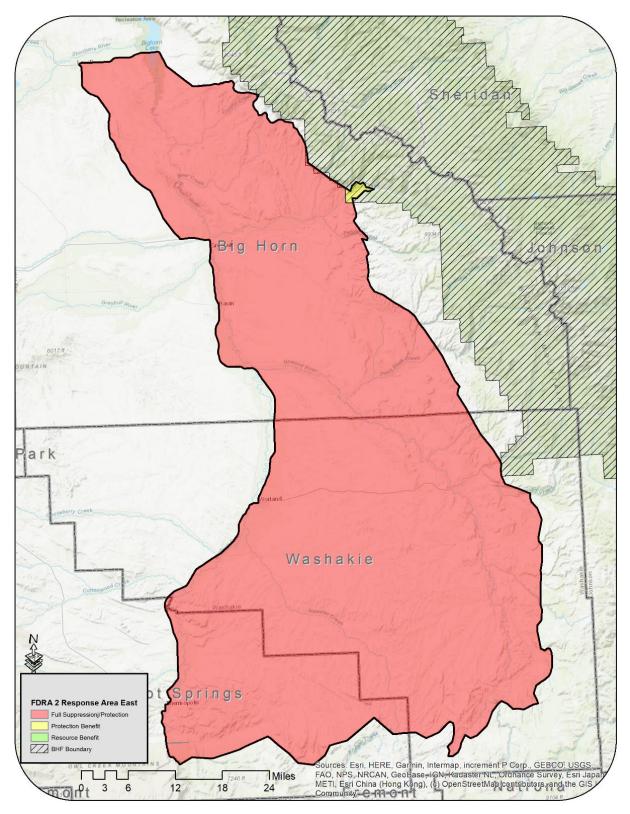
Table 4: FDRA 2 West Response Action



Map 2. FDRA 2 West Response Plan Map

				Dispatch Actio	n Based on Resp	onse Level		
EDDA 2 B	iahawa	BI-X	_					
FDRA 2 B	_	111+	Low	Moderate	High	High	High	
Basin IA		49-110	Low	Low	Moderate	Moderate	High	
Response Plan		0-48	Low	Low	Low	Moderate	Moderate	
		ERC-X	0-15	16-30	31-47	48-62	63+	
Resour	rec	L	ow	Mod	lerate	His	ah	
IA Squad/Eng			ond 1		ond 2	Respo	_	
T4, or T6 with	-	Kesp	ona 1	Kesp	iona z	Kespt	onu 3	
ICT4	11013			Resr	ond 1	Respo	and 1	
ICT3				1100		Respo		
Helicopter						Respond 1		
Air Attack w/	ATGS			Respond	1 if in zone	Respond 1		
Dozer				1100,001101		Respond 1		
SEAT(s)								
Air Tanker								
Respo	nd	Resource	s will proce	ed directly to the	e incident at the	direction of Cody	Dispatch.	
			-	n be coordinated		-	-	
Notif	·y	Jurisdictio	nal Duty C	officer and county	dispatch if near	protected values	•	
		Spec	ial Instruc	ions for Dispatcl	n/Areas of Conce	ern		
	l s .c		r 1	· · ·				
						three fire planning ui ns. The strategic object		
	responsibili	options are based on the Forest Plan goals and resource objectives; values at risk; administrative and jurisdictional responsibilities; weather, fire behavior, fuels and fire history characteristics; access; and logistical support requirements.						
	Strategic Objective Response Options							
	Strate	gic Objectiv	re		Response (Options		
		gic Objectiv Full	Supp	ression response bas	Response (ed on the safest, mo	Options st effective, and cost-		
	Suppres	gic Objectiv Full sion/Resou	Supp		Response (ed on the safest, mo	Options st effective, and cost-		
Within Righorn	Suppres Pr	gic Objectiv Full sion/Resou otection	Suppont cont	ression response bas ain and control fires a	Response (ed on the safest, mo as quickly as possible	Options st effective, and cost-e	efficient actions to	
Within Bighorn National	Suppres Pr Resour	gic Objective Full sion/Resount otection ce Protection	Suppont Suppont Cont	oression response bas ain and control fires a ect values identified i	Response (ed on the safest, mo as quickly as possible n the Forest Plan as v	Options st effective, and cost-	efficient actions to	
National Forest	Suppress Pr Resour and/	gic Objective Full sion/Resounce otection ce Protection for Benefit	Suppont Protown are a	oression response bas ain and control fires a ect values identified i erships. Depending o un option in combinat	Response (ed on the safest, mo as quickly as possible n the Forest Plan as y n location, cause, and ion with protection of	Options st effective, and cost-overlass adjacent private time of year resource objectives.	efficient actions to e property or other e benefit objectives	
National Forest boundary	Suppress Pr Resour and/	gic Objective Full sion/Resount otection ce Protection	Suppont on Protown are a Man	oression response bas ain and control fires a ect values identified i erships. Depending o an option in combinat age natural ignitions	Response (ed on the safest, mo as quickly as possible n the Forest Plan as a n location, cause, and ion with protection of to accomplish resour	Options st effective, and cost-overlas adjacent private time of year resource objectives. ce benefit objectives.	efficient actions to e property or other e benefit objectives There may be	
National Forest	Suppress Pr Resour and/	gic Objective Full sion/Resounce otection ce Protection for Benefit	Suppont on Protown are a t Man value	oression response bas ain and control fires a ect values identified i erships. Depending o an option in combinat age natural ignitions	Response (ed on the safest, mo as quickly as possible n the Forest Plan as a n location, cause, and ion with protection of to accomplish resour	Options st effective, and cost-overlass adjacent private time of year resource objectives.	efficient actions to e property or other e benefit objectives There may be	
National Forest boundary utilize the following special	Suppress Pr Resour and/ Resour	gic Objective Full Sion/Resounce Protection Cor Benefit For Benefit For Benefit For Benefit	Suppont on Protown are a Man value prote intended re	pression response bas ain and control fires a ect values identified i erships. Depending o an option in combinat age natural ignitions es present or threate ection strategies. sponse to wildfires is	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to	options st effective, and cost-ovell as adjacent private time of year resource objectives. ce benefit objectives. be protected with positional accomplish resource	efficient actions to e property or other e benefit objectives There may be int or zone or value protection	
National Forest boundary utilize the following	Suppress Pr Resource and/ Resource Pobjectives.	Full sion/Resou otection ce Protection or Benefit urce Benefit cotection -The Unplanned ig	Suppont on Protown are a Man value intended renitions are un	ect values identified i erships. Depending o in option in combinat age natural ignitions es present or threater ection strategies. sponse to wildfires is	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to tial response will cor	pptions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. be protected with po- accomplish resource sist of the safest and	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and	
National Forest boundary utilize the following special instructions.	Suppress Pr Resource and/ Resource P objectives. cost-efficier	Full sion/Resounce Protection Cor Benefit Irce Benefit Corplanned ignit actions to continuous control of the co	Suppont on Protown are a Man value intended renitions are unontain and contain	ect values identified i erships. Depending o in option in combinat age natural ignitions es present or threater ection strategies. sponse to wildfires is wanted fires and ini-	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to tial response will con as possible. For fire	options st effective, and cost-ovell as adjacent private time of year resource objectives. ce benefit objectives. be protected with positional accomplish resource	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these	
National Forest boundary utilize the following special instructions.	Resource Pobjectives. cost-efficier areas, supp	Full sion/Resou otection ce Protection rotection -The Unplanned ign actions to coression action rotection and	Suppont on Protown are a total manufacture intended renitions are uncontain and cos would be infor Benefit	pression response base ain and control fires a cect values identified it erships. Depending our option in combinate age natural ignitions as present or threater ection strategies. It is sponse to wildfires it is wanted fires and inition the primary response.	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to tial response will con as possible. For fire at or minimize the effect of wildfires is to init	pptions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. be protected with po- accomplish resource sist of the safest and s that are threatening fects of fire when possiate actions that prote	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible.	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic	Resource Pobjectives. cost-efficier areas, supp	Full sion/Resounce Protection Cor Benefit Urce Benefit Ur	Suppont on Protown are a total manufacture intended renitions are uncontain and cos would be infor Benefit - itted may include	pression response base ain and control fires a cect values identified it erships. Depending our option in combinate age natural ignitions as present or threater ection strategies. It is sponse to wildfires it is wanted fires and inition the primary response to prevent the primary response de those located on	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to still suppression to tial response will con as possible. For fire at or minimize the effect or wildfires is to init National Forest as we	pptions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. be protected with po- accomplish resource sist of the safest and s that are threatening fects of fire when possiate actions that prote ell as adjacent private	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. ect the values. property or lands	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full	Resource Pobjectives. cost-efficier areas, supp Resource Pothese value administere	Full sion/Resou otection ce Protection rotection -The Unplanned ign actions to coression action rotection and s to be protected by other feed	Suppont on Protown are a total manufacture intended renitions are uncontain and cos would be intended for Benefit - Total may includeral and Statestan.	ect values identified is erships. Depending on option in combinate age natural ignitions es present or threater ection strategies. Sponse to wildfires is evanted fires and initiontrol fires as quickly aplemented to prevente primary response de those located on e agencies. Depending and a proposition of the primary response de those located on e agencies. Depending and and control fires as quickly aplemented to prevente primary response de those located on e agencies. Depending	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to still suppression to tial response will cor as possible. For fire at or minimize the effect of to wildfires is to init National Forest as we ag upon the location of	pytions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. be protected with po- accomplish resource sist of the safest and s that are threatening fects of fire when poss iate actions that prote ell as adjacent private of the fire and the cau-	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. ect the values. property or lands	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full suppression	Resource P objectives. cost-efficier areas, supp Resource P These value administere opportunity	Full sion/Resounce Protection Cor Benefit Urce Benefit Urce Benefit Urce Benefit Urce Benefit Unplanned ignit actions to coression action rotection and so to be protected by other feet to manage file.	Suppont on Protown are a total manufacture intended renitions are uncontain and cos would be infor Benefit - ted may includeral and State for resource.	ect values identified i erships. Depending o in option in combinat age natural ignitions es present or threater ection strategies. sponse to wildfires is wanted fires and initiontrol fires as quickly inplemented to prever the primary response ide those located on e agencies. Depending e benefit objectives i	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to stall suppression to tial response will con as possible. For fire at or minimize the effect or wildfires is to init National Forest as we ag upon the location of a combination with p	pptions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. be protected with po- accomplish resource sist of the safest and s that are threatening fects of fire when possiate actions that prote ell as adjacent private	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. ect the values. property or lands se, there may be an	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full	Resource P objectives. cost-efficier areas, supp Resource P These value administere opportunity The initial r the fire may	Full sion/Resou otection ce Protection -The Unplanned ign tactions to correction action rotection and so to be protected by other feed to manage filesponse to will also be a can	Supression of the second of th	ect values identified i erships. Depending o in option in combinat age natural ignitions es present or threater ection strategies. sponse to wildfires is wanted fires and ini- montrol fires as quickly inplemented to prever The primary response ide those located on e agencies. Depending be benefit objectives in quire an assessment puld be manage for re-	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a n location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to tial response will cor a as possible. For fire a to minimize the efficito wildfires is to init National Forest as we ag upon the location of n combination with p of the threat to values source benefit object	pytions st effective, and cost-of-overland standard private d time of year resource objectives. ce benefit objectives. be protected with possist of the safest and standard threatening feets of fire when possiate actions that protected as adjacent private of the fire and the causerotection objectives. es to be protected fro tives. The assessment	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these iible. ict the values. property or lands se, there may be an m fire and whether begins immediately	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full suppression /resource	Resource P objectives. cost-efficier areas, supp Resource P These value administere opportunity The initial r the fire may by evaluatin	Full sion/Resou otection ce Protection -The Unplanned ign traction action rotection and s to be protected by other feet to manage filesponse to will also be a can ag the cause a together the cause at the cau	Supression of the second of th	pression response base ain and control fires a cect values identified iterships. Depending on option in combinate age natural ignitions as present or threater ection strategies. Sponse to wildfires it wanted fires and initionatrol fires as quickly applemented to prever the primary response ide those located on the agencies. Depending the benefit objectives in quire an assessment and be manage for response to the fire relative to	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a n location, cause, and ion with protection of to accomplish resour ned that may need to s full suppression to tial response will cor a spossible. For fire at or minimize the effi- to wildfires is to init National Forest as we g upon the location of n combination with p of the threat to valu asource benefit object resource values. Co	pytions st effective, and cost-of-overland standard private drime of year resource objectives. The accomplish resource accomplish resource is that are threatening feets of fire when possible actions that prote actions that prote of the fire and the causer of the fire and the causer of the sees to be protected frow tives. The assessment mmensurate with the	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these iible. ct the values. property or lands se, there may be an m fire and whether begins immediately e assessment, initial	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full suppression /resource	Resource Pobjectives. cost-efficier areas, supp Resource Pithese value administere opportunity. The initial rithe fire may by evaluating response resource per supportunity.	Full sion/Resou otection ce Protection or Benefit rotection -The Unplanned ignoression action of the Stope of	Supression of the state of the	pression response base ain and control fires a cect values identified it erships. Depending on option in combinate age natural ignitions as present or threater ection strategies. Sponse to wildfires it wanted fires and initionatrol fires as quickly applemented to prever the primary response ide those located on the agencies. Depending the benefit objectives in quire an assessment and be manage for response to the fire relative to a fire under the assure	Response (ed on the safest, mo as quickly as possible In the Forest Plan as a n location, cause, and ion with protection of to accomplish resour ned that may need to as full suppression to tial response will cor as possible. For fire at or minimize the effi- to wildfires is to init National Forest as we g upon the location of n combination with p of the threat to values continued to the control of the control control of the threat to the control control of the threat to the control of the control of the threat to the control of the control of the threat to the control of the cont	pytions st effective, and cost-of-overland standard private d time of year resource objectives. ce benefit objectives. be protected with possist of the safest and standard threatening feets of fire when possiate actions that protected as adjacent private of the fire and the causerotection objectives. es to be protected fro tives. The assessment	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. crt the values. property or lands se, there may be an m fire and whether begins immediately e assessment, initial ion response unless	
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National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full suppression /resource	Resource P objectives. cost-efficier areas, supp These value administer opportunity The initial r the fire may by evaluatir response re directed oth Resource B to accompli designated fires is ofter backcountre events and	Full sion/Resour otection ce Protection ce Protection crosses are done of the cause a sources are done of the cause are source of the	Supression of the state of the	ect values identified in erships. Depending on option in combinating age natural ignitions es present or threater ection strategies. Sponse to wildfires in wanted fires and inition the fire relative to the eagencies. Depending the benefit objectives in equire an assessment option of the fire relative to a fire under the assumes are classified as an ese to wildfires are to residentified in the Fountry areas with litting be values present the protected with property of the protected with property areas with litting the protected with property areas with property	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ion with protection of to accomplish resour ned that may need to sa full suppression to tial response will cor as possible. For fire at or minimize the effect to wildfires is to init National Forest as we ag upon the location of the threat to valu assource benefit object resource values. Con point of the threat the fire is unwanted fire and w take advantage of op orest Plan. The strate le or no road access t or threatened that bint or zone protection to the fire that may to	pytions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. o be protected with po- accomplish resource asist of the safest and s that are threatening fects of fire when poss iate actions that prote ell as adjacent private of the fire and the cau- irrotection objectives. es to be protected fro tives. The assessment mmensurate with the to receive a suppressic prortunities to manage egic area is comprised and impacts to resour may need to be protect on strategies. Fires car eventually be threater	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. oct the values. property or lands se, there may be an im fire and whether begins immediately e assessment, initial ion response unless on response. e natural ignitions primarily of ces from unwanted cted. Values in the in be long-term inted. The decision to	
National Forest boundary utilize the following special instructions. Outside Bighorn NF the strategic objective is full suppression /resource	Resource Pobjectives. cost-efficier areas, supp Resource Por These value administere opportunity The initial response redirected oth Resource Boundaries is often backcountre events and manage fires	Full sion/Resour otection ce Protection ce Protection crosses are done of the cause a sources are done of the cause a source of the caus	Supression of the state of the	ect values identified in erships. Depending on option in combinating age natural ignitions es present or threater ection strategies. Sponse to wildfires in wanted fires and inition the fire relative to the eagencies. Depending the benefit objectives in equire an assessment option of the fire relative to a fire under the assumes are classified as an ese to wildfires are to residentified in the Fountry areas with litting be values present the protected with property of the protected with property areas with litting the protected with property areas with property	Response (ed on the safest, mo as quickly as possible in the Forest Plan as a in location, cause, and ito accomplish resour- ned that may need to ital response will cor ital response will ital response ita	pytions st effective, and cost-of- well as adjacent private d time of year resource objectives. ce benefit objectives. o be protected with po- accomplish resource sist of the safest and s that are threatening fects of fire when poss iate actions that prote ell as adjacent private of the fire and the cau- frotection objectives. es to be protected fro tives. The assessment mmensurate with the to receive a suppress ell receive a suppress comportunities to manage egic area is comprised and impacts to resour may need to be protect on strategies. Fires can	efficient actions to e property or other e benefit objectives There may be int or zone or value protection most effective and g to burn into these ible. oct the values. property or lands se, there may be an im fire and whether begins immediately e assessment, initial ion response unless on response. e natural ignitions primarily of ces from unwanted cted. Values in the in be long-term inted. The decision to	

Table 5: FDRA 2 East Response Action

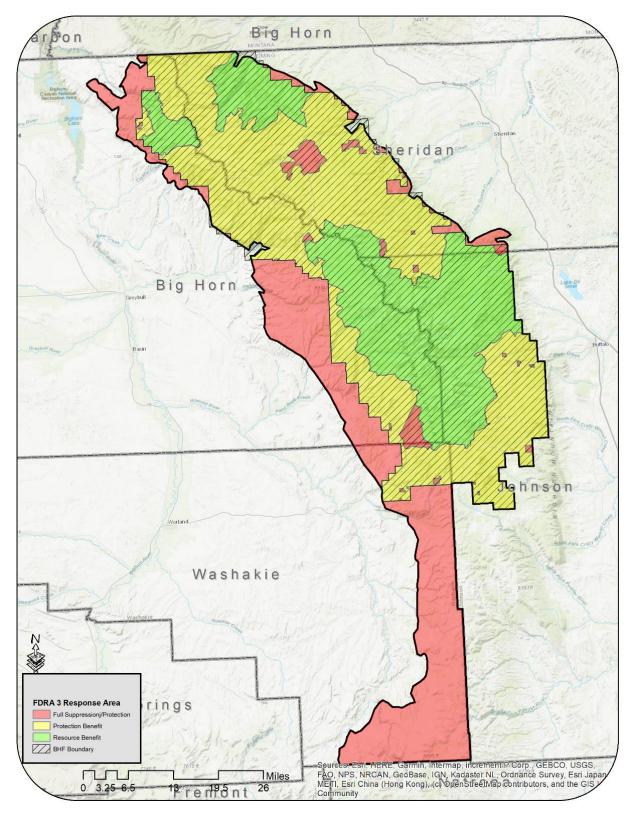


Map 3. FDRA 2 East Response Plan Map

					Dispotch Acti	on Based on Res	nonco Lovol		
		BI-Y			Dispatch Action	on based on Kesp	oonse Levei		
FDRA 3 B	ighorn	40+	L	ow	Moderate	High	High	High	
Mounta	_	30-39		ow ow	Low	Moderate	Moderate	High High	
		0-29		ow ow	Low	Low	Moderate	Moderate	
Respons	e Plan	ERC-Y		-28	29-34	35-41	42-47	48+	
	LIKE I			23 34	33 4 1	72 47	401		
Resou	rces	L	.ow		Mo	derate	Hiş	gh	
IA Squad/Eng	•	Res	oond	1	Res	oond 1	Respo	ond 2	
T4, or T6 with	ICT5						D		
ICT4							Respo	ona 1	
Helicopter							Respond 1	if in zone	
Air Attack w/	ATGS						Respond 1		
Dozer							1100/101101		
SEAT(s)									
Air Tanker									
Respo	nd	Resource	es will	proce	ed directly to th	ne incident at the	direction of Cody	Dispatch.	
Noti	fy						r protected values	5.	
		Spec	ial In	struction	ons for Dispatc	h/Areas of Conce	ern		
	options are b	es; weather,	Forest fire be	Plan goa	als and resource ob	jectives; values at risk y characteristics; acce	ns. The strategic object; administrative and juess; and logistical supp	urisdictional	
		ic Objectiv	<i>r</i> e	Cuppe	ossian rosmansa ha	Response (•	efficient actions to	
		Full ion/Resou	ırco	Suppression response based on the safest, most effective, and cost-efficient actions to contain and control fires as quickly as possible.					
	1	tection	iice						
Within Bighorn	_	e Protecti	on	Protect values identified in the Forest Plan as well as adjacent private property or other					
National Forest	and/d	or Benefit		ownerships. Depending on location, cause, and time of year resource benefit objectives are an option in combination with protection objectives.					
boundary	Resou	rce Benefi	t		•		ce benefit objectives.	There may be	
utilize the following					values present or threatened that may need to be protected with point or zone protection strategies.				
special	Resource Pro	otection -Th	e inten			s full suppression to	accomplish resource	or value protection	
instructions.	objectives. U	Inplanned ig	nitions	are unw	anted fires and in	tial response will cor	nsist of the safest and	most effective and	
					•		s that are threatening fects of fire when poss		
Outside Bighorn NF the							iate actions that prote		
strategic		•		•			ell as adjacent private pof the fire and the caus		
objective is full suppression							orotection objectives.	se, there may be an	
/resource		•		-			es to be protected from		
protection							tives. The assessment immensurate with the		
	response res	ources are d	ispatch	ed to a f	fire under the assur	nption that the fire is	to receive a suppressi	on response unless	
							ill receive a suppressio portunities to manage	•	
	to accomplis	h resource b	enefit c	bjective	s identified in the I	orest Plan. The strate	egic area is comprised	primarily of	
	_				•		and impacts to resourd may need to be proted		
							on strategies. Fires can		
	events and it	is recognize	d that t	here ma	ay be values distant	to the fire that may	eventually be threaten	ed. The decision to	
	_			-	_	m fire assessments that etecting the values.	nat consider the proba	bility of a fire	
	Initial respor	nse to fires v	vill requ	uire an a	assessment as to w	hether the fire is a c	andidate to manage f		
	objectives. T	ne assessmei	nt begir	ns immed	diately by evaluatin	g the probable cause	and location of the fire	relative to resource	

values. Initial response resources are dispatched to a fire under the assumption that the fire is a potential wildland fire use candidate and would not begin suppression actions unless directed otherwise. Human caused fires are classified as an unwanted fire and will receive a suppression response. Unwanted fires that escape initial response are evaluated for their potential impacts to values that are near and distant. In situations where values are low or the probability of values impacted are low and/or defensible, management responses may consist of less aggressive suppression actions such as monitoring, point or zone protection, and/or confinement.

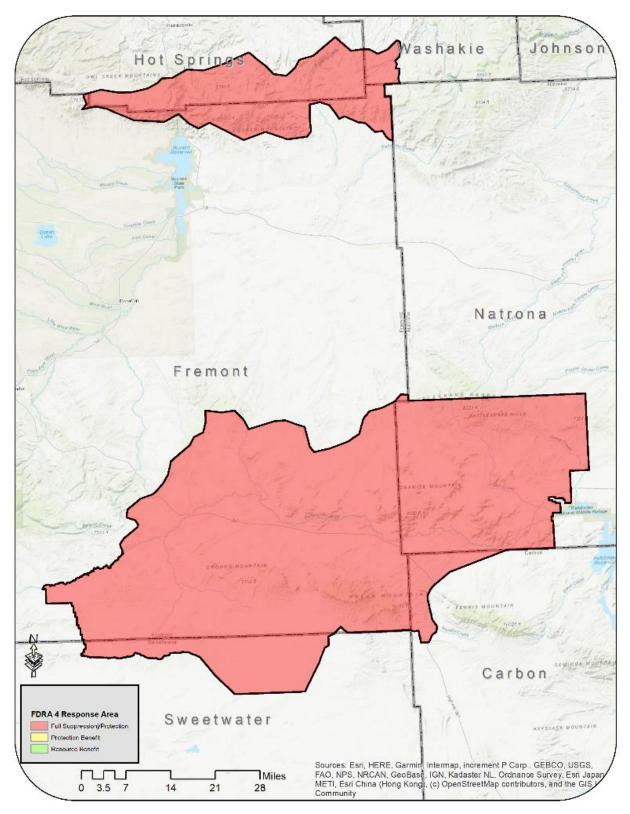
Table 6: FDRA 3 Response Action



Map 4. FDRA 3 Response Plan Map

	Dispatch Action Based on Response Level							
	BI-X							
FDRA 4	119+	Low	Moderate	High	High	High		
Copper/Sweetwater	69-118	Low	Low	Moderate	Moderate	High		
IA Response	0-68	Low	Low	Low	Moderate	Moderate		
	ERC-X	0-16	17-32	33-45	46-57	58+		
Resources	Lo	w	Mod	derate	Hig	gh		
IA Squad/Engine – T3,	Respo	ond 1	Res	oond 1	Respo	ond 2		
T4, or T6 with ICT5								
ICT4			Res	oond 1	Respond 1			
ICT3								
Helicopter					Respond 1	if in zone		
Air Attack w/ATGS					Respond 1	if in zone		
Dozer								
SEAT(s)								
Air Tanker								
Respond	Resources	will proce	ed directly to t	he incident at the	e direction of Cod	y Dispatch.		
Notify	Jurisdictio	nal Duty O	fficer and coun	nty dispatch if nea	ar protected value	·S.		
	Specia	l Instructio	ns for Dispatch	n/Areas of Conce	rn			

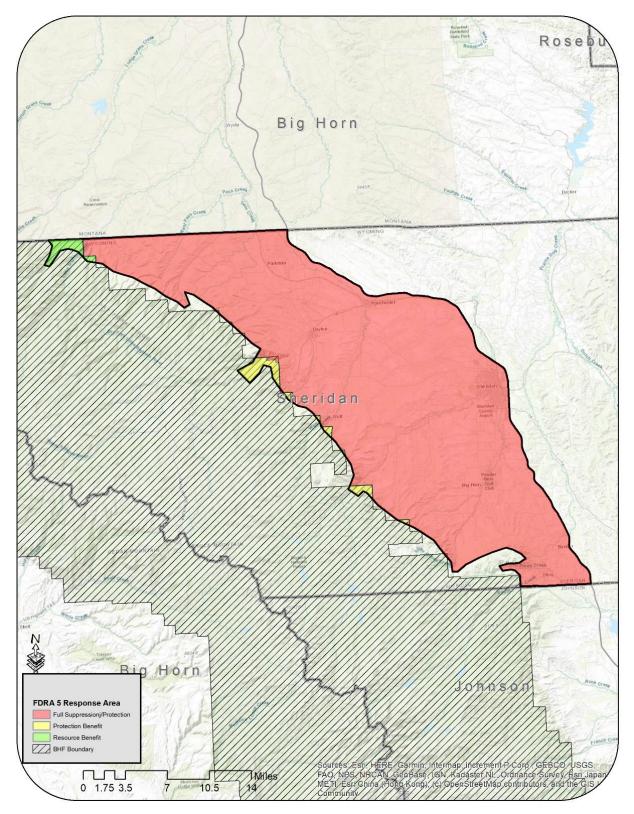
Table 7: FDRA 4 Response Actions



Map 5. FDRA 4 Response Plan Map

Γ		T						
		DI V		Dispatch Act	ion Based on Resp	onse Level		
FDRA 5 To	ngua	BI-X	Lavo	N. A. a. da washa	11:-1-	11:-1-	1.11 - 1-	
	_	83+	Low	Moderate	High	High	High	
River I		50-82	Low	Low	Moderate	Moderate	High	
Respon	se	0-49	Low	Low	Low	Moderate	Moderate	
	ERC-X 0-14			15-25	26-37	38-53	54+	
Resource	es	L	ow	Mod	derate	Hip	gh	
IA Squad/Eng		Resp	ond 1		ond 1	Respo		
T3, T4, or T6 v				Respond 2				
ICT5								
ICT4						Respo	ond 1	
ICT3								
Helicopter						Respond 1	. if in zone	
Air Attack w/	ATGS					Respond 1	. if in zone	
Dozer								
SEAT(s)								
Air Tanker								
Respon			-	•		irection of Cody Di	spatch.	
Notify					y dispatch if near p			
			-		atch/Areas of Con			
Response by Sheridan Disp	_	if within 1	mile of fo	rest boundary, ot	herwise no other	response from age	encies, notify	
Sheridan Disp		ce attached r	man for locat	ion of response option	s. The unit is divided in	ito three fire planning ι	inits with strategic	
						ions. The strategic obje		
	1 -			_	-	sk; administrative and		
				avior, fuels and fire his	•	cess; and logistical sup	port requirements.	
	Stra	tegic Obje	ctive	Sunnression resnonse	Response	nost effective, and cost-	efficient actions to	
	Sunnr	ression/Re	SOURCE		res as quickly as possib	·	emorem detions to	
		Protection						
Within Bighorn		urce Prot		Protect values identifi	ed in the Forest Plan a	s well as adjacent priva	te property or other	
National		nd/or Ben		· · · · · · · · · · · · · · · · · · ·	•	nd time of year resource	ce benefit objectives	
Forest boundary		source Bei			ination with protection	n objectives. urce benefit objectives.	Thoro may bo	
utilize the	Res	source bei	nent		•	to be protected with p	•	
following				protection strategies.	·			
special instructions.				•		to accomplish resource onsist of the safest and	•	
mistractions.						res that are threatenin		
Outside						effects of fire when pos		
Bighorn NF the			-			nitiate actions that proto well as adjacent private		
strategic		•				n of the fire and the ca		
objective is full suppression	opportu	nity to mana	ge fire for re	source benefit objectiv	es in combination with	protection objectives.	•	
/resource	1	•		•		lues to be protected fro		
protection	1	-		_	-	ectives. The assessmen ^e Commensurate with th		
	response	e resources a	re dispatche	d to a fire under the a	ssumption that the fire	is to receive a suppres	sion response unless	
						will receive a suppressi		
						opportunities to managategic area is comprised		
	1	•		•		s and impacts to resou	•	
	1			·		at may need to be prote		
	1	•		·	•	tion strategies. Fires ca y eventually be threate	-	
	1	_		•		•		
	reaching	manage fire for resource benefit objectives include long-term fire assessments that consider the probability of a fire reaching distant values and the probability of success in protecting the values.						

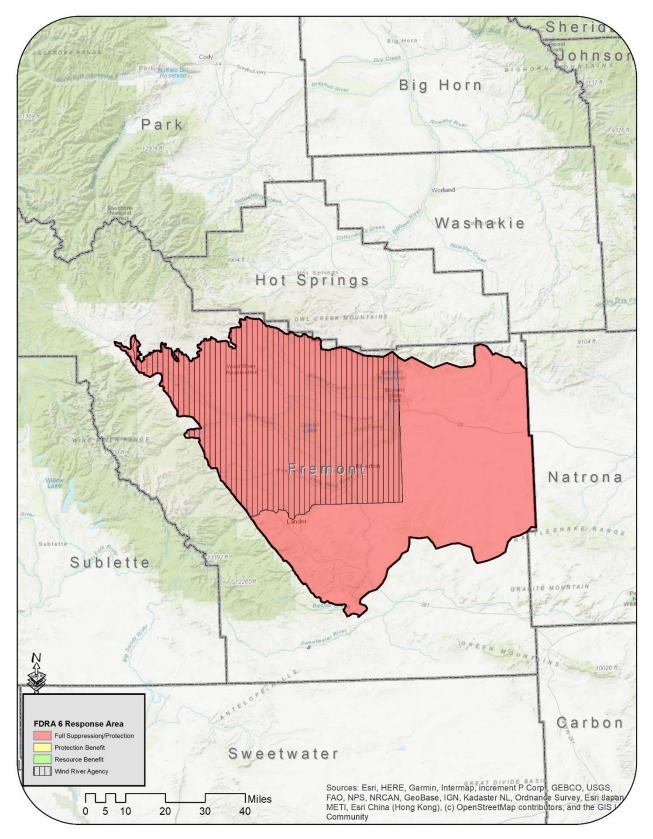
Table 8: FDRA 5 Response Actions



Map 6. FDRA 5 Response Plan Map

			Dispatch Action	on Based on Resp	onse Level	
	BI-X					
FDRA 6 Wind River	137+	Low	Moderate	High	High	High
	57-136	Low	Low	Moderate	Moderate	High
Basin IA Response	0-56	Low	Low	Low	Moderate	Moderate
	ERC-X	0-19	20-35	36-52	53-70	71+
Resources	L	ow	Mod	derate	Hig	gh
IA Squad/Engine – T3,	Resp	ond 1	Res	espond 2 Respond		ond 3
T4, or T6 with ICT5						
ICT4			Res	oond 1	Respond 1	
ICT3						
Helicopter					Respond 1	if in zone
Air Attack w/ATGS					Respond 1	if in zone
Dozer						
SEAT(s)						
Air Tanker						
Respond	Resource	es will proce	ed directly to th	ne incident at the	direction of Cody	Dispatch.
Notify	Jurisdicti	onal Duty O	fficer and coun	ty dispatch if nea	r protected values	· ·
	Spec	ial Instruction	ons for Dispatc	h/Areas of Conce	ern	
On Wind River Agency ju	urisdiction	al lands this	response plan	is not applicable		

Table 9: FDRA 6 Response Actions



Map 7. FDRA 6 Response Plan Map

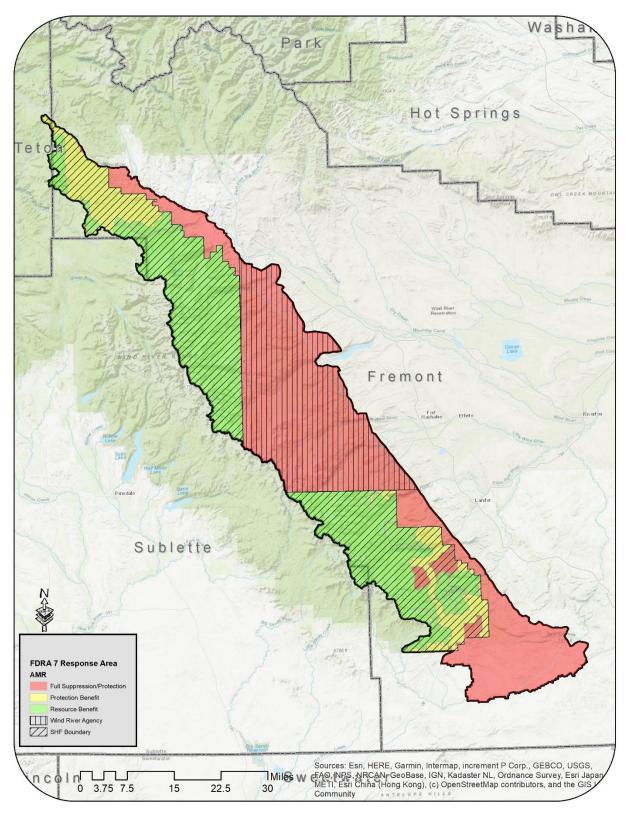
	Dispatch Action Based on Response Level										
FDRA 7 Wind River Mountains IA Response		BI									
		36+ Low 24-35 Low)W	Moderate	High	High	High			
				ow .	Low	Moderate	Moderate	High			
		0-23		ow .	Low	Low	Moderate	Moderate			
		ERC		21	22-33	34-47	48-52	53+			
					00		10 02				
Resou	rces	Low			Mo	derate	High				
IA Squad/Eng		Respond		1	Respond 1		Respo	_			
T4, or T6 with				_			·				
ICT4							Respond 1				
ICT3							nospono 1				
Helicopter							Respond 1 if in zone				
Air Attack w/	ATGS										
Dozer	1.05						Respond 1 if in zone				
SEAT(s)											
Air Tanker											
	n d	Posource	النبدء	nroco	ad directly to t	ao incident at the	direction of Cody	Dispatch			
Respo		Resources will proceed directly to the incident at the direction of Cody Dispatch. Jurisdictional Duty Officer and county dispatch if near protected values.									
Noti	ıy						•	S.			
D (Cl						h/Areas of Conce					
			-		_	•	nse Guide for spe	cific actions			
					e NF Land Mar	_					
On Wind Rive						is not applicable	· three fire planning ui	aits with stratogic			
							ns. The strategic object				
							; administrative and ju				
				havior, f	uels and fire histor	y characteristics; acce	ess; and logistical supp	ort requirements.			
	Strategi	ic Objective		Response Options							
			Full		Suppression response based on the safest, most effective, and cost-efficient actions to contain and control fires as quickly as possible.						
	ion/Resource		Contain and Control in es as quickly as possible.								
	Protection										
Within Shoshone		e Protecti	-	Protect values identified in the Forest Plan as well as adjacent private property or other ownerships. Depending on location, cause, and time of year resource benefit objectives							
National	and/or Benefit		are an option in combination with protection objectives.								
Forest	Resource Benefit		Manage natural ignitions to accomplish resource benefit objectives. There may be								
boundary values present or					s present or threatened that may need to be protected with point or zone						
utilize the	Danassuna Dus	-44: Th	. :		tion strategies.	is full surrenssian to					
following special						• • •	accomplish resource	•			
instructions.	objectives. Unplanned ignitions are unwanted fires and initial response will consist of the safest and most effective and cost-efficient actions to contain and control fires as quickly as possible. For fires that are threatening to burn into these										
	areas, suppression actions would be implemented to prevent or minimize the effects of fire when possible.										
Outside	Resource Protection and/or Benefit - The primary response to wildfires is to initiate actions that protect the values.										
Shoshone NF	These values to be protected may include those located on National Forest as well as adjacent private property or lands administered by other federal and State agencies. Depending upon the location of the fire and the cause, there may be an										
the strategic objective is full	opportunity to manage fire for resource benefit objectives in combination with protection objectives.							oo, there may be all			
suppression	The initial response to wildfires will require an assessment of the threat to values to be protected from fire and whether										
/resource	-				-	=	tives. The assessment				
protection		by evaluating the cause and location of the fire relative to resource values. Commensurate with the assessment, initial response resources are dispatched to a fire under the assumption that the fire is to receive a suppression response unless									
	-	ed otherwise. Human caused fires are classified as an unwanted fire and will receive a suppression response.									
	Becurre Renefit - The minary response to wildfires are to take advantage of opportunities to manage natural ignitions										

Resource Benefit - The primary response to wildfires are to take advantage of opportunities to manage natural ignitions to accomplish resource benefit objectives identified in the Forest Plan. The strategic area is comprised primarily of designated wilderness and other backcountry areas with little or no road access and impacts to resources from unwanted fires is often low or short-term. There may be values present or threatened that may need to be protected. Values in the backcountry are often isolated and can be protected with point or zone protection strategies. Fires can be long-term events and it is recognized that there may be values distant to the fire that may eventually be threatened. The decision to

manage fire for resource benefit objectives include long-term fire assessments that consider the probability of a fire reaching distant values and the probability of success in protecting the values.

Initial response to fires will require an assessment as to whether the fire is a candidate to manage for resource benefit objectives. The assessment begins immediately by evaluating the probable cause and location of the fire relative to resource values. Initial response resources are dispatched to a fire under the assumption that the fire is a potential wildland fire use candidate and would not begin suppression actions unless directed otherwise. Human caused fires are classified as an unwanted fire and will receive a suppression response. Unwanted fires that escape initial response are evaluated for their potential impacts to values that are near and distant. In situations where values are low or the probability of values impacted are low and/or defensible, management responses may consist of less aggressive suppression actions such as monitoring, point or zone protection, and/or confinement.

Table 10: FDRA 7 Response Actions



Map 8. FDRA 7 Response Plan Map

Appendix B STAFFING PLAN

The Staffing Plan is intended to provide day-to-day guidance for decisions regarding the "degree of readiness" of initial attack (IA) resources. The Staffing Level (SL) is used as a basis to make daily internal fire operations decisions affecting our agency personnel. At each SL, this plan identifies:

- Draw-down levels minimum value of resource by staffing level.
- Step-up actions

The plan will function most effectively when decisions are made in preparation for escalating fire danger and potential fire activity. Waiting until the day of a critical event during extreme fire danger will not be as effective.

Terminology

Staffing Index – the selection of an NFDRS index (ERC, BI, IC, SC) to provide the basis to calculate the Staffing Level.

Staffing Level – the bottom line of fire-danger rating and can be thought of as a "readiness" level. Staffing Levels are expressed as numeric values where 1 represents the low end of the fire danger continuum and 5 at the high end. Staffing Level is intended to provide fire managers with day to day (short term) decision support regarding staffing of suppression resources. Staffing level can be used to determine when additional workforce and resources may be necessary to ensure appropriate staffing in response to escalating fire danger.

Step-up Plan – includes supplemental preparedness actions designed to enhance the unit's fire management capability during short periods (usually one burn period in anticipation of wind events ,dry cold fronts, and lightning events) where normal staffing cannot foreseeably meet initial attack, prevention, or detection needs.

Draw-down level – the degree of response capabilities of an agency due to the impact of emergency activity within their home jurisdiction and/or commitment of resources to the mutual aid system for incident response outside of their jurisdiction. Draw-down is expressed as either (1) the predetermined number/type of suppression resources, or (2) the percentage of remaining capacity of suppression resources that are required to maintain viable initial attack (IA) capability.

For this FDOP, calculation of the Staffing Level begins with the Response Level. For any Response Level the corresponding Staffing Level is determined by taking into consideration two additional factors:

1. Fire Activity, including prescribed fire, in any FDRA, that requires the commitment of more than 50% of CDC resources and,

2. Triggers forecasted to occur within the FDRA and associated Fire Weather Zone within the next 24-hour period.

Triggers:

- LAL 4,5, or 6
- Haines of 6
- Red Flag Warning or Fire Weather Watch

		All FDRA's					
Response Level		1 – Low		2- Moderate		3 – High	
Fire Activity	No	SL 1	SL 2	SL 2	SL 3	SL 3	SL 4
	Yes	SL 2	SL 3	SL 3	SL 4	SL 4	SL 5
Weather		No	Yes	No	Yes	No	Yes
Trigger							

Table 11: Response Level to Staffing Level Determination

		Staffing Levels				
FDRA	Resources	SL 1	SL 2	SL 3	SL 4	SL 5
1	Forest FMO/AFMO	0	0	0-1	1	1
	Forest Duty Officer	0-1	0-1	0-1	1	1
	Zone/District FMO/AFMO	0	0	0-1	1	1
	Zone Duty Officer	0-1	0-1	0-1	1	1
	Engine or IA Module with ICT5	0	0-1	0-1	1-2	2
	ICT4	0	0	0-1	1	1
	ICT3	0	0	0	0-1	1
	Staffing Hours	Normal	Normal	Normal +	7-day	7-day +
	Dispatch Center Staffing	Normal	Normal	Normal +	7-day	7-day +
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO
2	Duty Officer	1	1	1	1	1
	Engine or IA Module with ICT5	1	1	2	3-4	4
	ICT4	0	0	0-1	1	2
	ICT3	0	0	0	0-1	1
	Staffing Hours	Normal	Normal	Normal +	7-day	7-day +
	Dispatch Center Staffing	Normal	Normal	Normal +	7-day	7-day +
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO
3	Forest/District DO	1	2*	2*	3*	4*
	Engine or IA Module with ICT5	1-2	2-3	3-4	4	4
	ICT4	0	0	0-1	1	1
	ICT3	0	0	0	0-1	1
	Staffing Hours	Normal	Normal	Normal +	7-day	7-day +
	Dispatch Center Staffing	Normal	Normal	Normal +	7-day	7-day
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO

4	Duty Officer	1	1	1	1	1
	Engine or IA Module with ICT5	1	1	2	3-4	4
	ICT4	0	0	0-1	1	2
	ICT3	0	0	0	0-1	1
	Staffing Hours	Normal	Normal	Normal +	7-day	7-day +
	Dispatch Center Staffing	Norma	Normal	Normal +	7-day	7-day +
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO
5	Duty Officer					
	Engine or IA Module with ICT5					
	ICT4					
	ICT3					
	Staffing Hours					
	Dispatch Center Staffing					
	Step-Up Actions					
6	Duty Officer	1	1	1	1	1
	Engine or IA Module with ICT5	1	1	2	3-4	4
	ICT4	0	0	0-1	1	2
	ICT3	0	0	0	0-1	1
	Staffing Hours	Normal	Normal	Normal +	7-day	7-day +
	Dispatch Center Staffing	Normal	Normal	Normal +	7-day	7-day +
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO
7	Forest FMO/AFMO	0	0	0-1	1	1
	Forest DO	0-1	0-1	0-1	1	1
	Zone/District FMO/AFMO	0	0	0-1	1	1
	Zone DO	0-1	0-1	0-1	1	1
	Engine or IA Module with ICT5	0	0-1	0-1	1	2
	ICT4	0	0	0-1	1	1-2
	ICT3	0	0	0	0-1	1-2
	Staffing Hours	Normal	Normal	Normal+	7-day	7-day+
	Dispatch Center Staff	Normal	Normal	Normal+	7-day	7-day
	Step-Up Actions	Normal	WxE	WxE	WxE/PrpO	WxE/PrpO)

Table 12: Staffing Level Actions and Draw-down Levels

Step-up Actions:

WxE – consider extended staffing using severity or forest support code for weather event (RFW, or lightning)

PrpO – consider requesting additional resources (engines/crews/SEAT's/HEL3, etc.) to preposition in critical areas using regional or local preposition codes or severity. This could include standing up a staged IMT3.

^{*} BHF Only – includes FFMO or Resource Staff Officer for Large Fire Support.

Appendix C PREPAREDNESS PLAN

Preparedness Levels will assist fire managers with more long-term (seasonal) decisions with respect to fire danger. Preparedness level calculations begins with the maximum Staffing Index for any FDRA as calculated in WIMS for ERC-Y and then takes into consideration forecast ignition risk (lightning), critical fire weather and resource commitment.

Calculation of the FDRA or Zone Preparedness Level is determined using the following steps:

- 1. Determine each FDRA 5-day average ERC for either X-Brush or Y-Timber fuel models (current ERC and previous 4-day ERC values averaged). Check the appropriate range of ERC values box that corresponds to the FDRA ERC 5-day average. Complete for all FDRA's.
- 2. Check all the Staffing Index boxes that corresponds to the boxes checked for each FDRA. The FDRA with the highest ERC Breakpoint checked corresponds to the initial Zone Preparedness Level. Each FDRA will have a initial PL as well.
- 3. Determine Ignition Risk and Critical Fire Weather for the next three days by clicking on each Fire Weather Forecast Zone by FDRA and determining if the LAL = 4-6, Haines Index=6 or if there is a Fire Weather Watch or Red Flag Warning issued. Utilize the zone forecast or either matrices to determine if any of the weather elements are forecasted within the next three days.
- 4. Determine by FDRA and Zone if > 50% of resources are currently committed to fires.
- 5. Follow the arrows to PL rating by FDRA with the highest PL being the Zone PL.

3-day Weather Forecast							
FDRA	Fire Weather Forecast Zone	LAL 4-6	HI=6	FWF/RFW			
1	<u>286</u>	Y/N	Y/N	Y/N			
2	<u>129</u>	Y/N	Y/N	Y/N			
2	<u>275</u>	Y/N	Y/N	Y/N			
2	<u>276</u>	Y/N	Y/N	Y/N			
2	<u>282</u>	Y/N	Y/N	Y/N			
2	<u>287</u>	Y/N	Y/N	Y/N			
3	<u>284</u>	Y/N	Y/N	Y/N			
4	<u>285</u>	Y/N	Y/N	Y/N			
4	<u>289</u>	Y/N	Y/N	Y/N			
5	<u>274</u>	Y/N	Y/N	Y/N			
6	<u>283</u>	Y/N	Y/N	Y/N			
7	<u>288</u>	Y/N	Y/N	Y/N			

Table 13. Three Day Fire Weather Forecast Elements to Determine PL

ERC										
Breakpoints		1	2	2	:	3		4		5
FDRA 1 Absaroka Mountains ERC-Y		- 18	_	- 30		- 42 □		3- 48 □		49+ □
FDRA 2 Bighorn Basin ERC-X		-15 		- 30		- 47		3-6 2 □		63+
FDRA 3 Bighorn Mountains ERC-Y		- 28		- 34		- 41		2-47 □		48+ □
FDRA 4 Copper/ Sweetwater ERC-X	[-16 		-32 	[-45 		6- 57		58+
FDRA 5 Tongue River ERC-X	[-14 		-25	[-37 		3-53 □		54+
FDRA 6 Wind River Basin ERC-X		- 19 □		-35]		- 52	_	3- 70 □		71+
FDRA 7 Wind River Mountains ERC-Y		- 21		- 33		- 47		B- 52 □		53+
Staffing Index by FDRA or max Index for Zone		1		2		3		4		5 ⊠
Ignition Risk Low = LAL 1-3 High = LAL 4-6	Low 🗵	High	Low	High	Low	High	Low	High	Low	High
Critical Fire Weather in next 72 hrs (HI=6, FWW, RFW)	Yes/No	No	Yes	No	_	No	Yes	No I	Yes	No/ Yes
Resources Committed > 50%		Yes	No]	Yes	No]	Yes	No	Yes	No.	/Yes
FDRA Preparedness Level	- -	=	1	= -		7			V	

Table 13. FDRA Preparedness Level Matrix

CDC Zone PL from CDC Mob Guide	All FDRA's Low to Moderate	2+ FDRA's Moderate to High	2+ FDRA's High to Very High	3+ FDRA's Very High to Extreme	Majority of FDRA's are Very High to Extreme
Zone					
Preparedness	1	II	III	IV	V
Level					

Table 14. CDC Zone Preparedness Level Matrix

Preparedness Level Actions are guidelines. And as such are discretionary in nature, for agency personnel to refer to when preparedness level thresholds are reached. If an agency doesn't have specific position that is listed withing the PL table, that agency will utilize discretion as to what position will assume those roles.

Recommended Action Items by Preparedness Levels

Responsibility	Suggested Action	PL 1	PL 2	PL 3	PL 4	PL 5	Affected Entity
	Pre fire season meeting with all firefighters to establish Leader's Intent based on Agency emphasis	х					Agency
	Ensure adequate Resource Advisors (READ/REAF) are trained and available for local fire assignments			х	х	Х	Agency
	Ensure adequate Public Information (PIO) staff are trained/available and briefed on agency talking points			х	x	Х	Agency
Agency	Ensure adequate Contracting and Purchasing Support is available locally to meet incident needs	x	x	x	x	X	Agency
Administrator	Communicate acting Agency Administrators to Agency Duty Officers (DO)	X	X	X	Х	X	Agency
	Evaluate work/rest needs of fire staff and crews	Х	Х	Х	Х	Х	Agency
	Consider management of natural ignitions to meet LRMP/RMP objectives	Х	х	х	х	Х	Agency
	Review/Submit severity requests to the appropriate staff level			х	х	X	Agency
	Provide appropriate support to fire staffs in the implementation of preparedness level actions				x	х	Agency
	Consider/Approve appropriate fire restrictions and closures			Х	Х	X	Public Industry
	Issue guidance to staff indication severity of the season and the need and availability of fire support personnel			х	х	х	Agency

	T =						
	Evaluate season severity data (NFDRS						
	seasonal indices), fuel moisture, drought	X	Х	Х	X	X	Agency
	indices, short-term and long-term forecast						
	Brief Agency Administrator on burning			Х	Х	Х	Agency
	conditions and fire activity						
_	Review geographical and national						
Unit Duty	preparedness levels to evaluate need to			Х	Х	Х	Agency
Officer	suspend local RX fire activities						o ,
	Consider consultation or ordering FBAN or			Х	Х	Х	Agency
	WFDSS Support for ongoing fire activity						65,
	Consider ordering SOPL and/or LTAN for large			Х	Х	Х	Agency
	and/or long-term fires			~	, ·	- 1	7.801107
	Communicate with CDC Manager on						
	geographical conditions and resource			х	Х	Х	Agency
	availability			^	^	•	Agency
	•						
	Initiate press releases, social media messages			Х	Х	Х	Public
	with Agency PIO staff						Industry
	Consider fire severity request and pre-						
	positioning of resources to include ICT3, OPS,						Agency
Unit Duty	aerial supervision/support, LOGS, Finance,			Х	Х	Х	Public
Officer	purchasing, planning, information, and						Industry
Officer	prevention						
	Consult with Agency Administrator to ensure			Х	Х	Х	Agency
	actions are meeting their expectations						
	Evaluate crew and staff work/rest guidelines			Х	Х	Х	Agency
	are being met						,
	Initiate weekly calls with adjacent agencies						
	and cooperators regarding fire restrictions or			Х	Х	X	Agency
	closures						Ŭ,
	Request Agency Administrator issue guidance						
	to office staff for increased availability from				Х	Х	Agency
	militia for operations and support positions						o ,
	Consider management of natural ignitions to	Х	Х	Х	Х	Х	Agency
	meet LRMP/RMP Objectives						0 ,
	Communicate acting/replacement Unit DO to	Х	Х	Х	Х	Х	Agency
	CDC and Unit FMO/FOS						0 - 1,
	Coordinate with local fire wardens on local			Х	Х	Х	Agency
	fire danger conditions						65
	Confirm local preparedness and response			Х	Х	Х	Agency
	levels with CDC Manager			,			
	Brief local staff on increasing fire danger		Х	Х	Х	Х	Agency
	Brief Regional/State staff of increasing or			X	X	Х	Agency
	decreasing fire activity and resource needs			^			Agency
	Evaluate need for fire restrictions or closures			Х	Х	Х	Public
	Evaluate fieed for fire restrictions of closules			^	^	٨	Industry
							muustiy

	Consider pre-positioning an appropriate IMT				Х	Х	Agency
	As PL decreases, consult with CDC Manager to release pre-positioned resources		Х	Х			Agency
	Consider ordering buying team and IBA for IMT1/IMT2 fires			Х	Х	Х	Agency
	Ensure Unit DO/Resource Status is updated on CDC webpage daily				Х	Х	Agency
	Evaluate work/rest guidelines are being followed by dispatch personnel	Х	х	х	Х	х	Agency
	Initiate weekly/bi-weekly Calls with FMO/Unit DO and Cooperators			Х	Х	Х	Agency
	Review Local Resource Availability with Zone Units		Х	Х	Х	Х	Agency
	Review Fire Weather Forecasts		Х	Х	X	Х	Agency
	Consider Expanded Dispatch		Х	Х	Х	Х	Agency
	Consider Unit Incident Support Organization		Х	Х	X	Х	Agency
	Consider CICG/LMAC Activation bi- weekly/weekly/daily calls		Х	Х	Х	X	Agency
Cody Dispatch	Severity Requests – order appropriate resources			Х	Х	Х	Agency
Center	Fire Restrictions implemented on some or all units			x	x	х	Agency Public Industry
	Evaluate IA Dispatch Staffing needs		Х	Х	Х	Х	Agency
	Consider IMT3 Activation based on needs from Unit DO/FMO			Х	Х	Х	Agency
	Consider SEAT Base Activation		Х	Х	Х	Х	Agency
	Consider ordering off-unit IA Dispatchers and logistical support personnel			Х	Х	Х	Agency
	As PL decreases, consult with Unit DO's/FMO to release pre-positioned resources		Х	Х			Agency
	Consider management of natural ignitions to meet LRMP/RMP Objectives	Х	Х	Х	Х	X	Agency
	Evaluate work/rest guideline of staff and crews	Х	Х	Х	Х	Х	Agency
	Consider patrols and pre-positions local IA resources in high risk areas and/or high-risk weather conditions		х	х	х	Х	Agency
	Suspend or not initiating RX fire operations without Regional Approval for FS				Х	Х	Agency
	Evaluate draw-down levels for suppression, command and oversight			Х	X	X	Agency

Zone/District FMO/DO	Consider replacement/additional resources when resources are on days-off or gone on assignment			х	х	х	Agency
	Evaluate need for fire restrictions/closures			Х	Х	Х	Public Industry
	Brief unit agency administrator on conditions and all fire activity		Х	Х	Х	Х	Agency
	Consider pre-positioning additional IA resources from militia or off-unit			Х	Х	Х	Agency
	Ensure incoming off-unit resources receive unit briefing and daily weather/fire briefing			Х	Х	Х	Agency
	As PL decreases, consult with Unit Do/FMO to release pre-positioned resources		Х	Х			Agency
	Ensure Zone/District DO and Resource Status is updated on CDC webpage daily		Х	Х	Х	X	Agency
	Ensure roadside fire danger signs reflect the current adjective fire danger rating	Х	Х	Х	Х	X	Public
	Provide public and industrial entities with access to fire danger information, fire weather warnings, restriction and closure information			х	x	х	Agency Public Industry
Fire Prevention	Contact local industrial entities (logging, power, oil and gas) to inform of hazard and risk of wildfires			X	x	х	Industry
	Post restriction signs along access roads, campgrounds and recreational areas			Х	Х	Х	Public
	Consider need for increased fire prevention patrols and BLM INVF.			Х	Х	X	Agency
	Consult with local FMO on need for fire restrictions/closures			Х	Х	X	Public

Table 15. Preparedness Level Actions

Appendix D ADJECTIVE FIRE DANGER RATING LEVEL

In 1974, the Forest Service, Bureau of Land Management and state forestry organizations established five standard Adjective Fire Danger Level descriptions for public information and signing.

As with Preparedness Level, the Adjective Fire Danger Rating Level can be obtained as a direct output in WIMS, however, the Adjective Rating from WIMS is strictly based on weather and climatological percentiles with no regard to historical fire occurrence. The use of agency-specific climatological percentiles is not mandatory. The preferred method to determine Adjective Fire Danger Rating thresholds is based on statistical correlation of weather observations and fire occurrence. This FDOP will use the Adjective Fire Danger Rating on fire business thresholds rather than climatological percentiles.

To determine the Adjective Fire Danger Rating determine the 3-day Average ERC and IC (current day plus previous 2 days) for each FDRA and used the matrix in Table 15 to determine current Fire Danger Rating.

	FDRA 1 Absaroka Mountains							
3-day AVG ERC-Y		Fire	Danger Adjective Rat	ting				
Staffing Index								
0-18	Low	Low	Low	Moderate	Moderate			
19-30	Low	Moderate	Moderate	Moderate	High			
31-42	Moderate	Moderate	High	High	Very High			
43-48	Moderate	High	Very High	Very High	Extreme			
49+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-Y	0-3	4-15	16-29	30-40	41+			
		FDRA 1 Big	horn Basin					
3-day AVG ERC -X Staffing Index								
0-15	Low	Low	Low	Moderate	Moderate			
16-30	Low	Moderate	Moderate	Moderate	High			
31-47	Moderate	Moderate	High	High	Very High			
48-62	Moderate	High	Very High	Very High	Extreme			
63+	High	Very High	Very High	Extreme	Extreme			
3- day AVG IC-X	0-8	9-17	18-24	25-36	37+			
		FDRA 3 Bigho	rn Mountains					
3- day AVG ERC-Y Staffing Index		Fire	Danger Adjective Rat	ting				
0-28	Low	Low	Low	Moderate	Moderate			
29-34	Low	Moderate	Moderate	Moderate	High			
35-41	Moderate	Moderate	High	High	Very High			
42-47	Moderate	High	Very High	Very High	Extreme			
48+	High	Very High	Very High	Extreme	Extreme			
3-day AVG IC-Y	0-5	6-19	20-34	35-44	45+			

		FDRA 4 Coppe	r/Sweetwater		
3-day AVG ERC-X			Danger Adjective Rat	ing	
Staffing Index					
0-16	Low	Low	Low	Moderate	Moderate
17-32	Low	Moderate	Moderate	Moderate	High
33-45	Moderate	Moderate	High	High	Very High
46-57	Moderate	High	Very High	Very High	Extreme
58+	High	Very High	Very High	Extreme	Extreme
3-day AVG IC-Y	0-10	11-16	17-24	25-36	37+
		FDRA 5 To	ngue River		
3-day AVG ERC-X		Fire	Danger Adjective Rat	ing	
Staffing Index					
0-14	Low	Low	Low	Moderate	Moderate
15-25	Low	Moderate	Moderate	Moderate	High
26-37	Moderate	Moderate	High	High	Very High
38-53	Moderate	High	Very High	Very High	Extreme
54+	High	Very High Very High		Extreme	Extreme
3-day AVG IC-Y	0-5	0-5 6-10 11-19		20-38	39+
		FDRA 6 Wind	d River Basin		
3-day AVG ERC-X		Fire	Danger Adjective Rat	ing	
Staffing Index			•		
0-19	Low	Low	Low	Moderate	Moderate
20-35	Low	Moderate	Moderate	Moderate	High
36-52	Moderate	Moderate	High	High	Very High
53-70	Moderate	High	Very High	Very High	Extreme
71+	High	Very High	Very High	Extreme	Extreme
3-day AVG IC-X	0-12	13-18	19-29	30-40	41+
		FDRA 7 Wind R	iver Mountains		
3-day AVG ERC-Y		Fire	Danger Adjective Rat	ing	
Staffing Index					
0-21	Low	Low	Low	Moderate	Moderate
22-33	Low	Moderate	Moderate	Moderate	High
34-47	Moderate	Moderate	High	High	Very High
48-52	Moderate	High	Very High	Very High	Extreme
53+	High	Very High	Very High	Extreme	Extreme
3-day AVG IC-Y	0-5	6-15	16-32	33-43	44+

Table 16. Adjective Fire Danger Rating Matrix

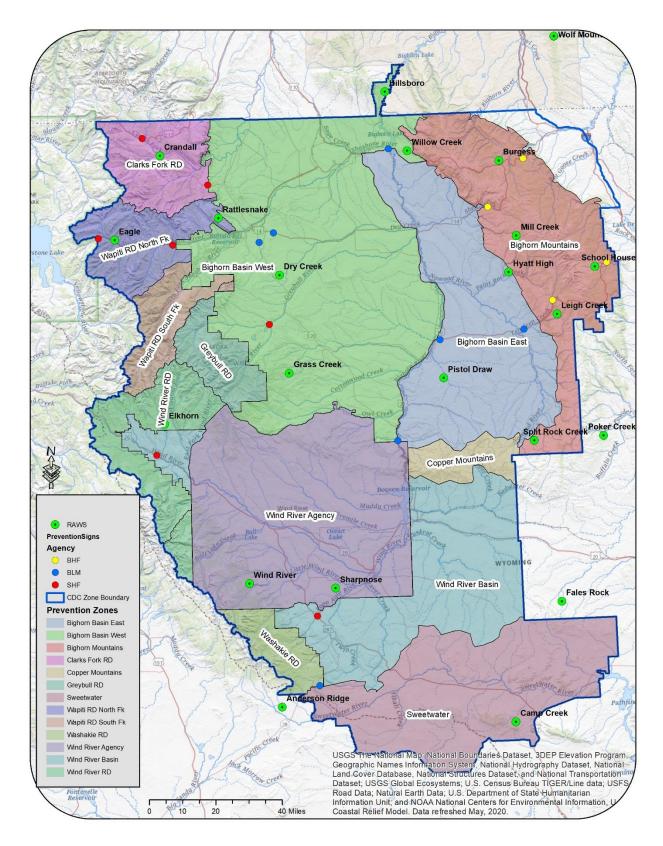
Appendix E PREVENTION PLAN

The FDRA designations and associated weather stations used to determine decision points are adequate for staffing and preparedness level planning but may not be the most accurate way to articulate fire danger to the public. There may be enough variability in conditions within a FDRA at the same time to warrant different signing of fire danger in different areas. Given this possibility, some of the FDRAs have been subdivided into prevention zones (Map 9). In some locations, individual station fire danger adjective ratings will be used to set the fire danger signs as well as a criterion to emphasize the fire prevention message in a given area). The Tongue FDRA is currently assessed by a satellite imagery greenness factor, with fire danger ratings assessed by the County Fire Warden. Fire Managers in some prevention zones are supplementing the rating system with fuel moisture data and averaging a combination of RAWS station indices to match what occurs in a FDRA.

Fire Danger Rating Area	Prevention Zone	Indicator Station or SIG for Signing	Number of Signs in Prevention Zone
FDRA 1 - Absaroka	Clarks Fork RD	Crandall RAWS	2
Mountains	Wapiti RD -North Fork	Eagle/Rattlesnake RAWS	2
	Wapiti RD -South Fork	Eagle/Rattlesnake RAWS	1
	Greybull RD	Grass Cr/ Rattlesnake RAWS	1
	Wind River RD	Elkhorn RAWS	1
FDRA 2- Bighorn Basin	East and West Bighorn Basin	Grass Creek/Dry Creek/Pistol Draw/ Willow Creek/ Hyatt High RAWS	6
FDRA 3 – Bighorn Mountains	Bighorn National Forest	Burgess/Mill Creek/ Leigh Creek/ Schoolhouse Park RAWS	4
FDRA 4 – Copper/Sweetwater	All	Split Rock/ Poker Creek/Camp Creek/ Anderson Ridge RAWS	1
FDRA 5 – Tongue River	FDRA 5	None	None
FDRA 6 – Wind River Basin	Wind River Basin	Sharpnose/ Fales Rock RAWS	

Fire Danger Rating Area	Prevention Zone	Indicator Station or SIG for Signing	Number of Signs in Prevention Zone
	Wind River RD	Elkhorn RAWS	1
	Wind River Agency	Wind River/	N/A
FDRA 7 – Wind River		Sharpnose RAWS	
Mountains	Washakie RD	Wind River	1
		RAWS/Anderson	
		Ridge RAWS	

Table 17. Fire Prevention Zones



Map 9. Prevention Zones and Fire Danger Sign Locations

Appendix F RESTRICTION PLAN

Each Agency manages their own Restriction Plans with coordination with surrounding agencies and cooperators.

Appendix G STATISICAL ANALYSIS USED IN DETERMINATION OF RESPONSE LEVELS

FDRA1 - Absaroka Mountains

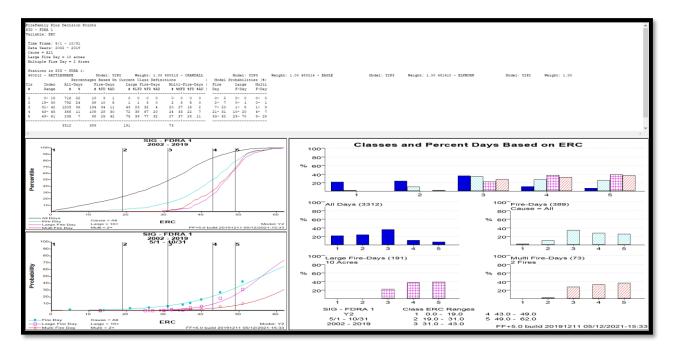


Table 18. FDRA 1 ERC- Y

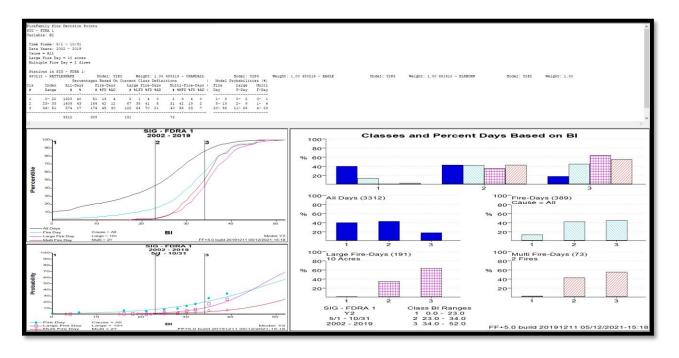


Table 19. FDRA 1 BI-Y

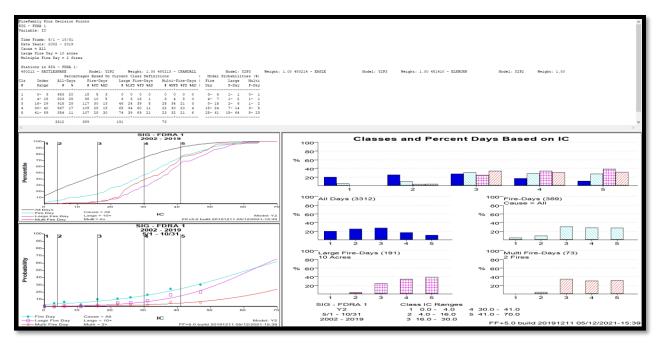


Table 20. FDRA 1 IC-Y

FDRA 2 - Bighorn Basin

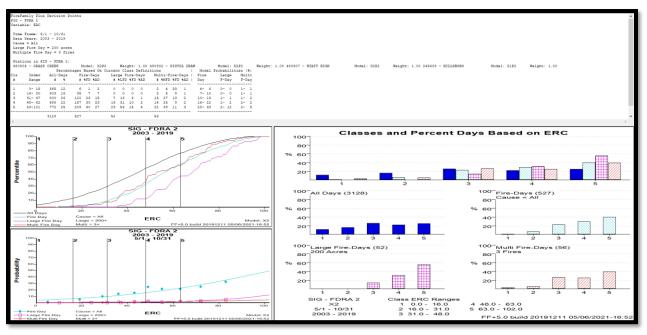


Table 21 FDRA 2 ERC-X

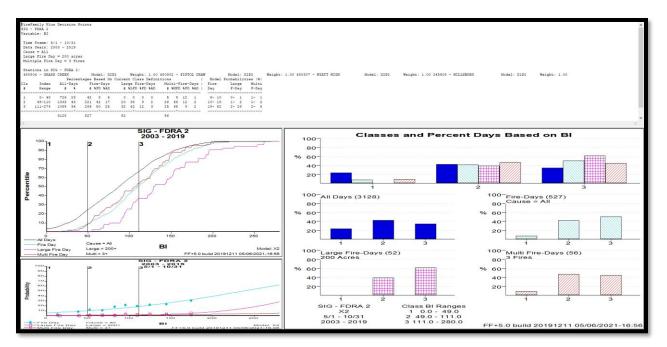


Table 22. FDRA 2 BI-X

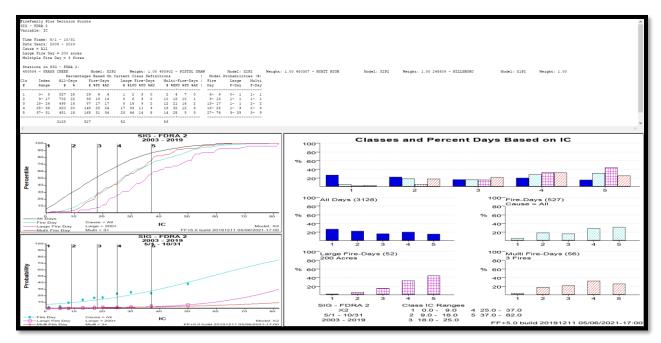


Table 23. FDRA 2 IC-X

FDRA 3 - Bighorn Mountains

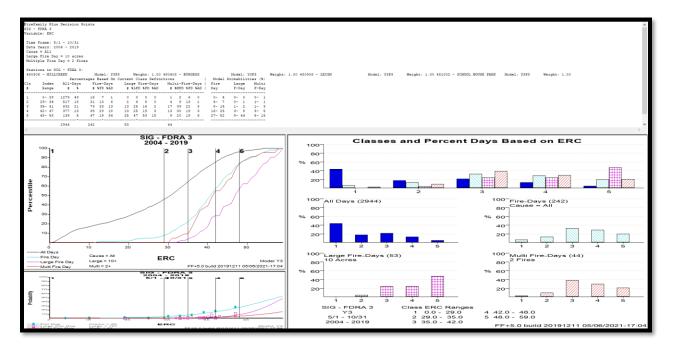


Table 24. FDRA 3 ERC-Y

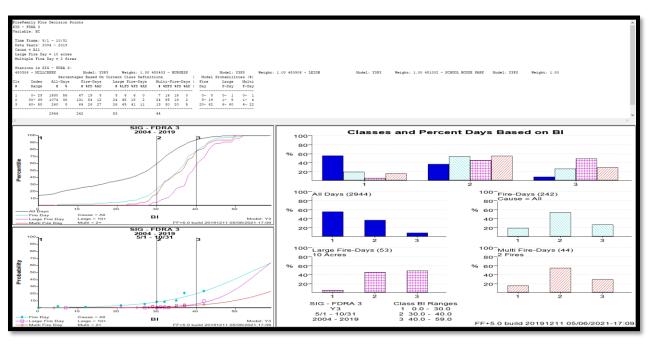


Table 25. FDRA 3 BI-Y

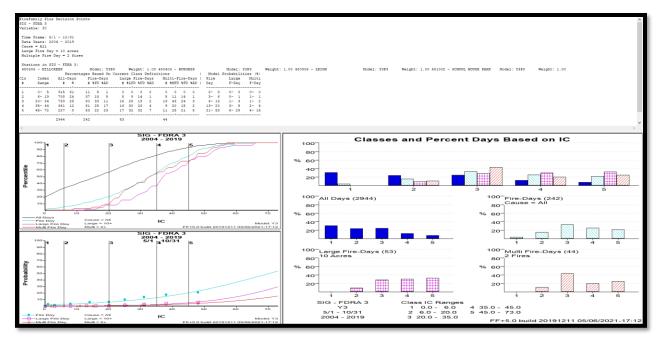


Table 26. FDRA 3 IC-Y

FDRA 4 - Copper/Sweetwater

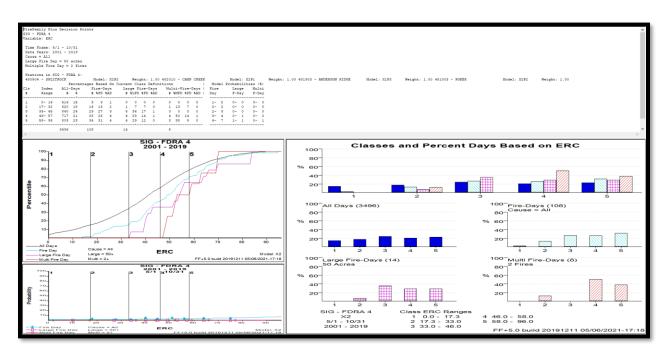


Table 27. FDRA 4 ERC-X

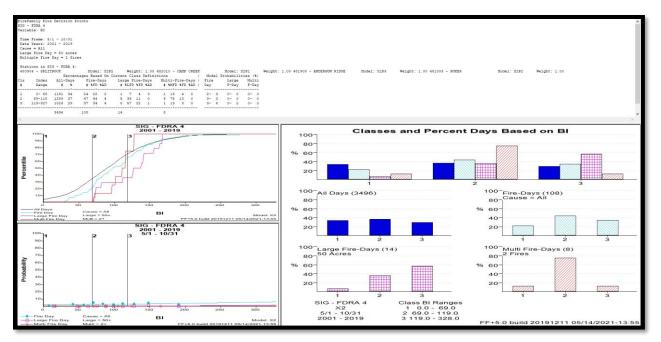


Table 28. FDRA 4 BI-X

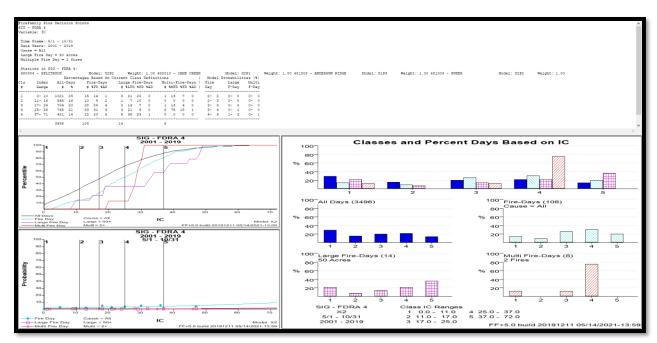


Table 29. FDRA 4 IC-X

FDRA 5 - Tongue River

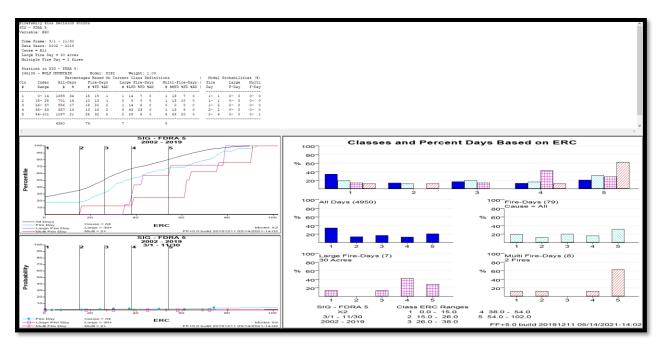


Table 30. FDRA 5 ERC-X

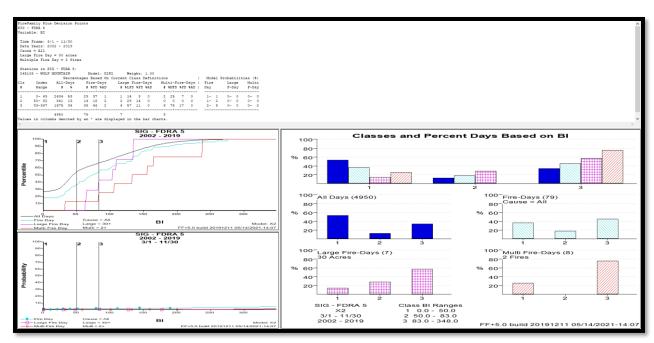


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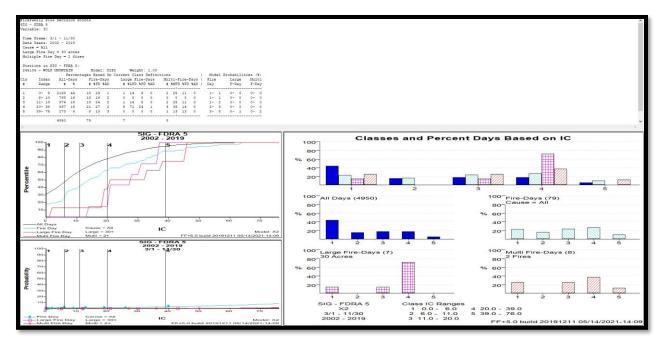


Table 32. FDRA 5 IC-X

FDRA 6 - Wind River Basin

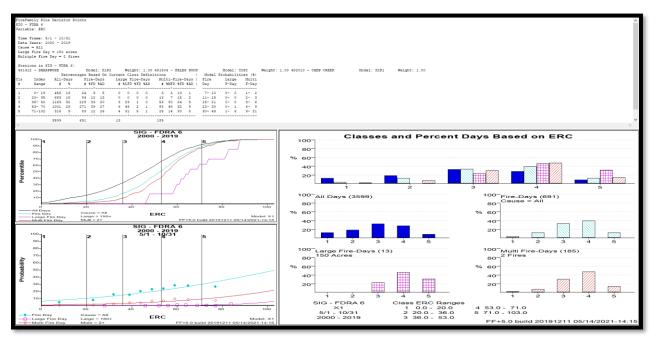


Table 33. FDRA 6 ERC-X

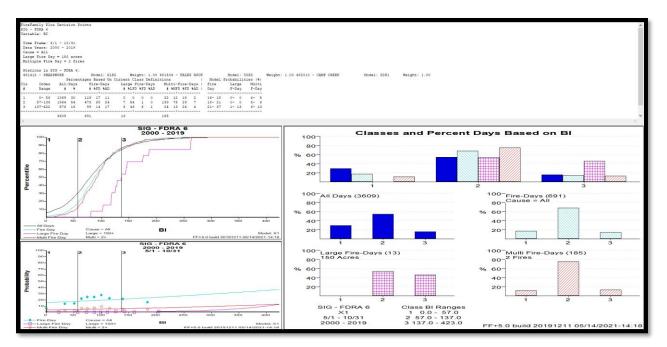


Table 34. FDRA 6 BI-X

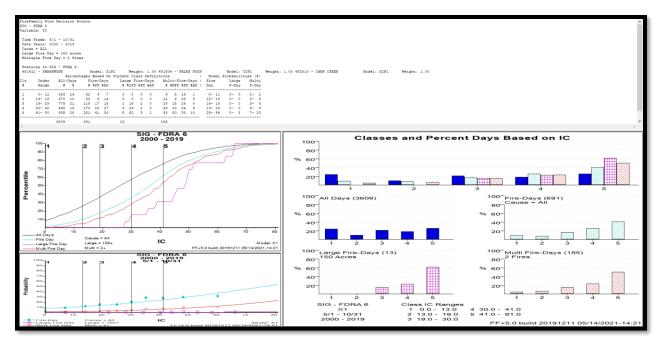


Table 35 FDRA 6 IC-X

FDRA 7 - Wind River Mountains

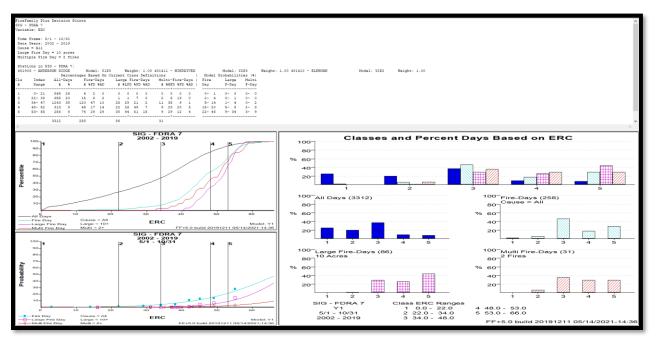


Table 36. FDRA 7 ERC-Y

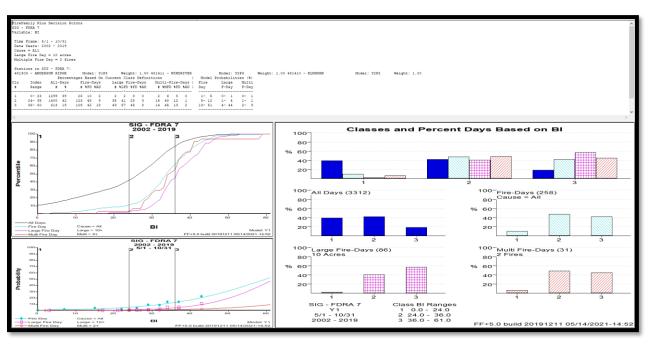


Table 37. FDRA 7 BI-Y

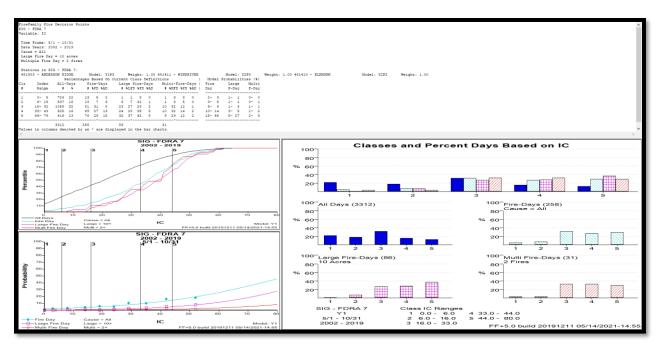
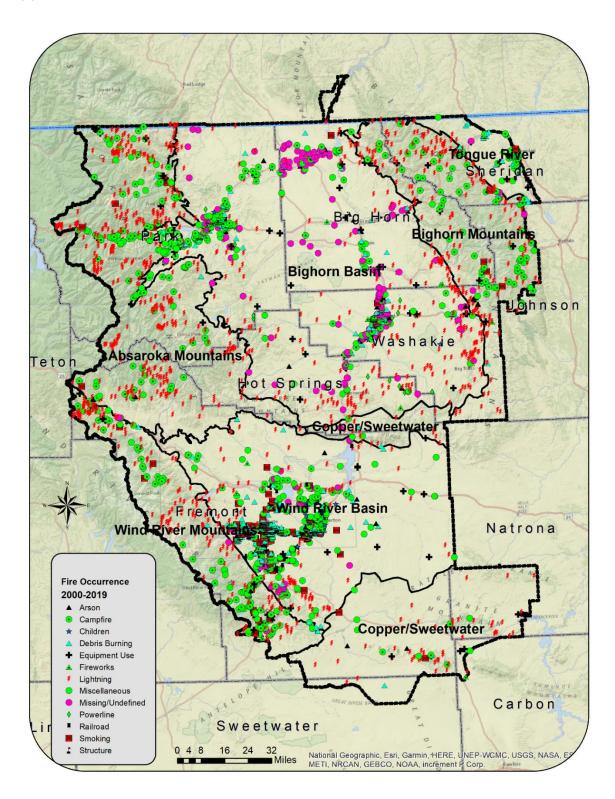
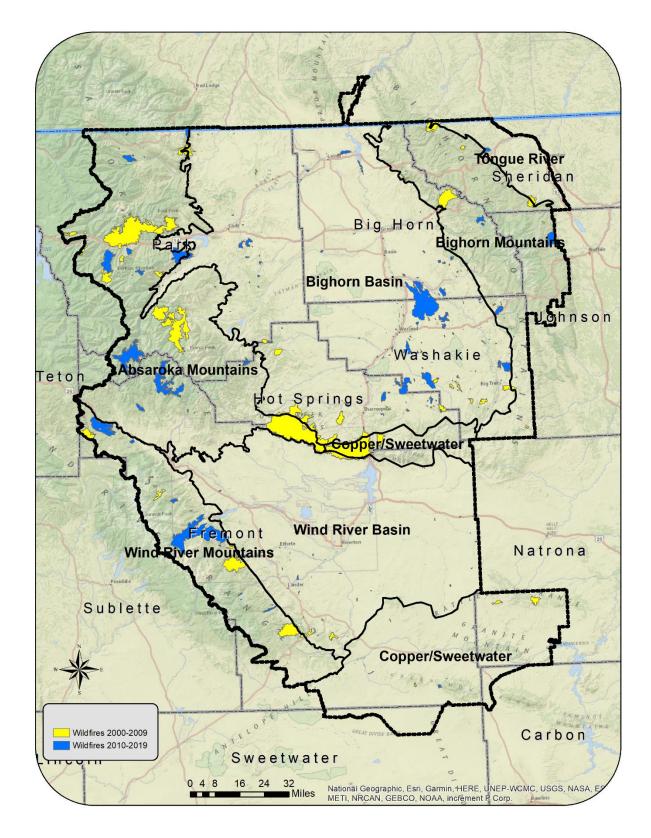


Table 38. FDRA 7 IC-Y

Appendix H FIRE OCCURRENCE



Map 10. Wildfire Point Data Map



Map 11. Large Fire Map

Appendix | FIRE DANGER RATING AREA DETAILS

1. FDRA 1 Absaroka Mountains

General Location:

The FDRA is located along the NW portion of the Dispatch Zone; borders Montana to the north; Yellowstone National Park and the Bridger-Teton NF to the west; Bighorn Basin FDRA to the east and Wind River Mountains and Wind River Basin FDRA's to the south. The FDRA encompasses most of the Shoshone National Forest north of the Wind River including the Clarks Fork, Wapiti, Greybull, and a portion of the Wind River Ranger Districts. The FDRA also includes a portion of the Cody and Worland Field Office BLM, State of Wyoming lands and Wind River Agency BIA lands along the Absaroka foothills east of the forest within the Bighorn Basin. Within the NW portion of the Wind River Basin, the FDRA includes a portion of Wind River Agency BIA lands in the Owl Creek Mountains west of Blondie Pass, Lander Field Office BLM and State of Wyoming lands. Park, Hot Springs, and Fremont Counties are within the FDRA. Fire Weather Forecast Zone (FWZ) 286 covers the majority of the FDRA and FWZ 287 covers the Owl Creek Mountains portion of the FDRA.

Vegetation:

Predominate vegetation types are sagebrush-grass (46%) and mixed conifer (35%). Plant communities represented include alpine, coniferous forest, montane meadow-parkland, sage-grass, and riparian. Lower elevation vegetation includes annual and perennial grasses. Much of the mountainous area includes sparse barren rocky ridges interspersed with snow/ice at higher elevations that are unburnable (17%). Since 2000 approximately 214,000 acres have burned mostly within the coniferous forest types, converting to more herbaceous fuels within the FDRA. Coniferous forests are the primary fire concern and are best represented by NFDRS fuel model Y. In the past 30 years, several beetle epidemics have caused significant tree mortality and over time fuel characteristics have changed with significant heavy dead fuel loadings in all size classes.

Climate:

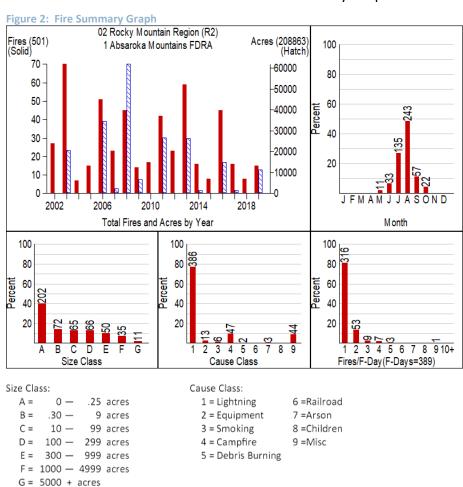
Typically, moisture is brought through the area from storms that track west to east. As air masses are forced up and over the higher elevations, heavier moisture is deposited at the higher elevations along the western side of the FDRA, decreasing to the lower elevations along the eastern and southern portions of the FDRA. The area receives on average 10-55" of annual precipitation. Approximately 29% of the precipitation occurs in the spring, 18% from summer thunderstorms and 53% in the fall and winter as snow.

Summer temperatures also vary with elevation; average highs range from 60-72° with average lows from 36-44°.

Topography:

The area is in the central Rocky Mountains east of the Continental Divide ranging from 4,652′ – 13,140′ in elevation. The majority of the FDRA occurs above 8,000′ (66%). Roughly half the area occurs on slopes < 40% (58%) with predominate eastern aspect. Two distinct mountains ranges occur with the FDRA, the Beartooth Mountains in the NE corner of the FDRA and the Absaroka Mountains in the remaining portion. The Beartooth's are mostly granitic in composition with steep glaciated valleys sloping off the high elevation Beartooth Plateau containing numerous lakes and alpine vegetation. The Absaroka Mountains are highly dissected, rugged, steep and volcanic in composition.

• FDRA 1 Absaroka Mountains – Fire Summary Graph



2. FDRA 2 Bighorn Basin

General Location

The FDRA is located in north central portion of the Dispatch Zone, borders Montana to the north, Absaroka Mountain FDRA to the west, Copper/Sweetwater FDRA to the south and the Bighorn Mountains FDRA to the east.

The FDRA encompasses a small portion of eastern Shoshone National Forest and private inholdings on the Clarks Fork and Wapiti Ranger Districts. The majority of the FDRA is within the Cody and Worland Field Office BLM lands with scattered State of Wyoming lands. The FDRA also includes a portion of the northeastern Wind River Agency BIA lands in the Owl Creek Mountains. There is a narrow finger of the FDRA within Montana, the Bighorn Canyon National Recreation Area managed by NPS. Park, Bighorn, Washakie, and Hot Springs Counties are within the FDRA in Wyoming and Carbon County within Montana. Fire Weather Forecast Zones (FWZ) 129, 275, 276, 282 and 287 covers the FDRA.

Vegetation:

Predominate vegetation type is sagebrush-grass (80%) with numerous different river corridors with associated irrigated agricultural lands scattered throughout the FDRA. Plant communities represented include high desert perennial grasses, Wyoming big sagebrush, mountain big sagebrush, rabbitbrush annual grasses, mixed confers and scattered bitterbrush and mountain mahogany. Areas of sparse barren ground is scattered throughout the FDRA and is considered unburnable (3%). Forested stands are found in the Heart Mountain, Grass Creek and Owl Creek Mountains along drainage bottoms and north aspects. Since 2000 approximately 162,000 acres have burned converting these areas to more herbaceous fuels within the FDRA. Grass-sagebrush fuel types are the primary fire concern and are best represented by NFDRS fuel model X.

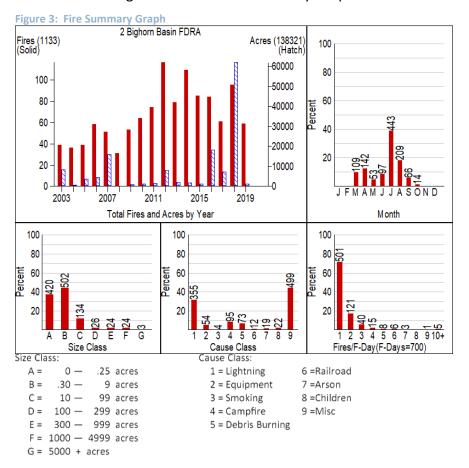
Climate:

The FDRA is considered arid to semi-arid desert with the least amount of moisture received near the center of the FDRA, with precipitation increasing along the east and west sides. The majority of the area receives on average 7-15" annual precipitation with some of the fringe areas receiving up to 32". Winters are typically dry with any snow received evaporating, blowing off exposed areas into drifts or melting. Approximately 44% of the precipitation occurs in the spring, 27% from summer thunderstorms and 29% in the fall and winter as snow. Summer temperature average highs range from 74-87° with average lows from 43-55°.

• Topography:

Elevation ranges from 3,586' to 8,101'. The lowest elevation with the dispatch zone occurs with this area. Slopes range from fairly flat to rolling hills to steep terrain. Approximately 96% of the terrain is < 40% with predominate eastern aspect.

• FDRA 2 Bighorn Basin - Fire Summary Graph



3. FDRA 3 Bighorn Mountains

General Location:

The FDRA is in central to NW corner of the Dispatch Zone, borders Montana to the north, Bighorn Basin FDRA to the west, Tongue River FDRA and Casper Dispatch Zone to the east and Wind River Basin FDRA to the south. The FDRA encompasses the Bighorn National Forest. The FDRA also includes a portion of the Worland Field Office BLM, State of Wyoming, and private lands along the western side of the forest and Buffalo Field Office BLM, State of Wyoming, and private lands on the east side. Big Horn, Washakie, Sheridan, and Johnson Counties are within the FDRA. Fire Weather Forecast Zone (FWZ) 284 covers the majority of the FDRA, FWZ 274 covers the western edge FWZ 275, 282 and 285 covers the eastern and southern portion of the FDRA.

Vegetation:

Predominate vegetation types are mixed conifer (54%) and sagebrush-grass (44%). Plant communities represented include alpine, coniferous forest, montane meadow-parkland, sage-grass, and riparian. Lower elevation vegetation includes annual and perennial grasses. Dense lodgepole pine and spruce/fir interspersed with open parks across the forest. Drier mid to lower slopes support ponderosa pine along the eastern and western sides of the mountains. Higher elevations contain sparse barren rocky terrain interspersed with wet meadows that are unburnable (2%). Since 2000 approximately 25,000 acres have burned mostly within the coniferous forest types, converting to more herbaceous fuels within the FDRA. Coniferous forests are the primary fire concern and are best represented by NFDRS fuel model Y.

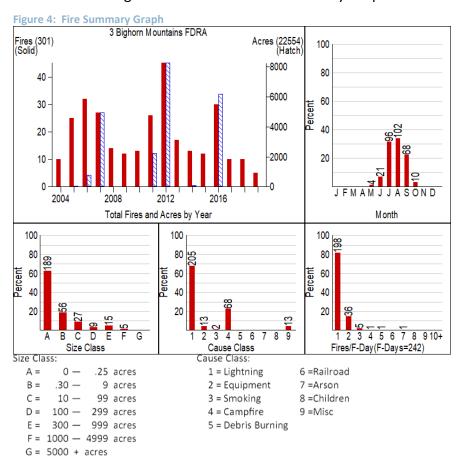
Climate:

The FDRA receives on average 12-37" of annual precipitation. Approximately 37% of the precipitation occurs in the spring, 19% from summer thunderstorms and 44% in the fall and winter as snow. Much of the FDRA is covered by snow from mid-October to mid-May. Summer temperatures also vary with elevation; average highs range from 59-70° with average lows from 37-47°.

Topography:

Elevation ranges from 4,610' to 13,176'. Slopes range from fairly flat on top of the Bighorn's to very steep canyons on both the eastern and western slopes of the Bighorns. Approximately 84% of the terrain is < 40% with predominate western aspect.

FDRA 3 Bighorn Mountains — Fire Summary Graph



4. FDRA 4 Copper/Sweetwater

• General Location:

The FDRA is split into two different segments, one near the center of the dispatch zone along the eastern Owl Creek Mountains and the other along the southern boundary of the Dispatch Zone in the Green Mountains. The central portion of FDRA borders Bighorn Basin FDRA to the north, Wind River Basin FDRA to the south, Absaroka Mountains FDRA to the west and the Casper Dispatch Zone to the east. The southern segment of the FDRA borders Wind River Basin FDRA to the north, Wind River Mountains FDRA to the west and the Casper Dispatch Zone to the east and south. The FDRA includes a portion of the Worland and Lander Field Office BLM, State of Wyoming and private lands. Washakie, Hot Springs, Fremont, Natrona, Carbon and Sweetwater Counties are within the FDRA. Fire Weather Forecast Zone (FWZ) 285 and 289 covers the majority of the FDRA, FWZ 303 covers the southeastern portion of the FDRA within Carbon County.

Vegetation:

Predominate vegetation types are sagebrush-grass (93%) with minor amount of conifer's (6%). Plant communities represented include high desert perennial grasses, salt brush, Wyoming big sagebrush, mountain big sagebrush, annual grasses, mixed confers and scattered bitterbrush and mountain mahogany. Areas of sparse barren ground is scattered through the FDRA and is considered unburnable (1%). Since 2000 approximately 11,000 acres have burned converting these areas to more herbaceous fuels within the FDRA. Grass-sagebrush fuel types are the primary fire concern and are best represented by NFDRS fuel model X.

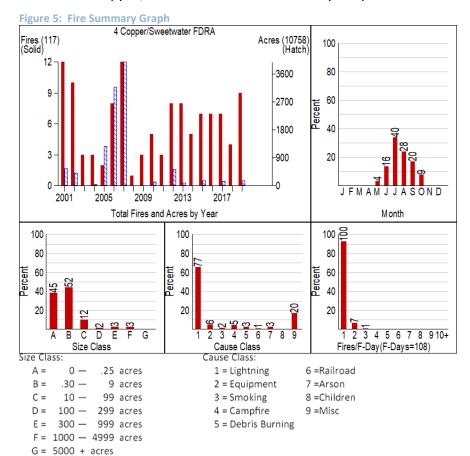
Climate:

The FDRA receives on average 10-18" of annual precipitation. Approximately 48% of the precipitation occurs in the spring, 25% from summer thunderstorms and 27% in the fall and winter as snow. Summer temperatures also vary with elevation; average highs range from 71-87° with average lows from 43-54°. Click here to enter text.

Topography:

Elevation ranges from 4,449' to 9,233'. Slopes range from fairly flat in the Wind River Basin to rolling hills to steeper terrain in the Owl Creek and Green Mountain portions of the zone. Approximately 97% of the terrain is < 40% with no predominate aspect.

FDRA 4 Copper/Sweetwater - Fire Summary Graph



5. FDRA 5 Tongue River

General Location:

The FDRA is in NE corner of the Dispatch Zone, borders Montana to the north, Bighorn Mountains FDRA to the west, and the Casper Dispatch Zone to the east. The FDRA encompasses a minor amount of the Bighorn National Forest along the western boundary. The FDRA includes State of Wyoming and private lands and a minor amount of Buffalo Field Office BLM lands. It covers a portion of Sheridan County. Fire Weather Forecast Zone (FWZ) 274 covers the FDRA.

Vegetation:

Predominate vegetation types are mostly grass (57%) with minor sagebrush (8%) and conifer (14%). The area is characterized by numerous creek drainages with a mix of deciduous trees and agricultural areas along the drainages. Plant communities represented include perennial grasses, Wyoming big sagebrush, mountain big sagebrush, ponderosa pine, Douglasfir. Since 2000 approximately 11,000 acres have burned. Grass fuel types are the primary fire concern and are best represented by NFDRS fuel model X.

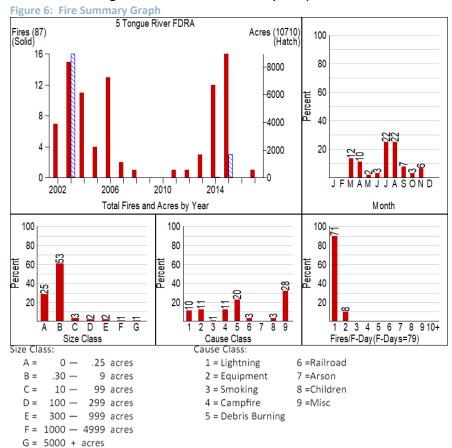
Climate:

The FDRA receives on average 12-23" of annual precipitation with the least amount received around Sheridan and the most along the northern Bighorn Mountains. Approximately 42% of the precipitation occurs in the spring, 22% from summer thunderstorms and 36% in the fall and winter as snow. Summer temperatures also vary with elevation; average highs range from 73-87° with average lows from 41-53°.

Topography:

Elevation ranges from 3,622' to 6,477'. The area consists of rolling plains and lowland flats within the Powder River Basin with steep slopes along the western portion bordering the Bighorn Mountains. Approximately 95% of the terrain is < 40% with predominately eastern aspect.

FDRA 5 Tongue River – Fire Summary Graph



6. FDRA 6 Wind River Basin

General Location:

The FDRA is located in south central portion of the Dispatch Zone, borders Absaroka Mountains and Copper/Sweetwater FDRA to the north, Wind River Mountains FDRA to the west, Copper/Sweetwater FDRA to the south and the Casper Dispatch Zone to the east. The FDRA encompasses a portion of the Lander Field Office BLM, State of Wyoming, and private lands within the Wind River Basin. It covers a portion of Fremont County. Fire Weather Forecast Zone (FWZ) 283 covers majority of the FDRA.

Vegetation:

Predominate vegetation types are sagebrush-grass (84%) with minor and conifer (4%). Plant communities represented include perennial grasses, Wyoming big sagebrush, mountain big sagebrush, lodgepole pine, Douglasfir, limber pine, juniper and scattered bitterbrush and mountain mahogany. Since 2000 approximately 152,000 acres have burned, converting to more grass fuel types. Sagebrush-grass fuel types are the primary fire concern and best represented by NFDRS fuel model X.

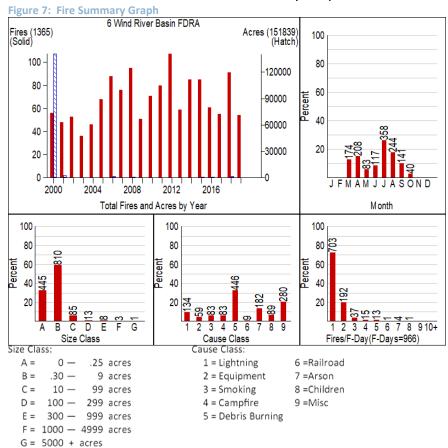
Climate:

The FDRA receives on average 10-28" of annual precipitation with the least amount received within the lowest elevations of the area. Approximately 45% of the precipitation occurs in the spring, 25% from summer thunderstorms and 30% in the fall and winter as snow. Summer temperatures also vary with elevation; average highs range from 70-81° with average lows from 42-54°.

Topography:

Elevation ranges from 4,574' to 7,435'. The area consists of rolling terrain and lowland flats across most of the area dissected by steep canyons and badlands. Approximately 99% of the terrain is < 40% with predominately no aspect.

FDRA 6 Wind River Basin — Fire Summary Graph



7. FDRA 7 Wind River Mountains

General Location:

The FDRA is located in southwest portion of the Dispatch Zone, borders Absaroka Mountains FDRA to the north, Wind River Basin FDRA to the east, Teton Dispatch Zone to the west and Copper/Sweetwater FDRA and Casper Dispatch Zone to the south. The FDRA encompasses southern portion of the Shoshone National Forest, a portion of the Lander Field Office BLM, State of Wyoming and private lands within the Wind River Basin and the southwestern portion of Wind River Agency BIA lands. It covers a portion of Fremont County. Fire Weather Forecast Zone (FWZ) 288 covers majority of the FDRA.

Vegetation:

Predominate vegetation types are mixed conifer (52%) and sagebrush-grass (44%). Plant communities represented include alpine, coniferous forest, montane meadow-parkland, sage-grass, and riparian. Lower elevation vegetation includes annual and perennial grasses. Much of the area includes sparse barren rocky ridges interspersed with snow/ice at higher elevations that are unburnable (4%). Since 2000 approximately 168,000 acres have burned mostly within the coniferous forest types, converting to more herbaceous fuels within the FDRA. Coniferous forests are the primary fire concern and are best represented by NFDRS fuel model Y.

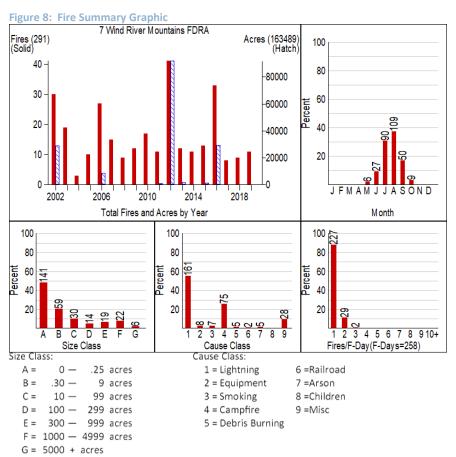
Climate:

The FDRA receives on average 10-43" of annual precipitation with the least amount received along the eastern portion of the area at the lower elevations. Approximately 33% of the precipitation occurs in the spring, 17% from summer thunderstorms and 51% in the fall and winter as snow. Summer temperatures also vary with elevation; average highs range from 65-74° with average lows from 36-44°.

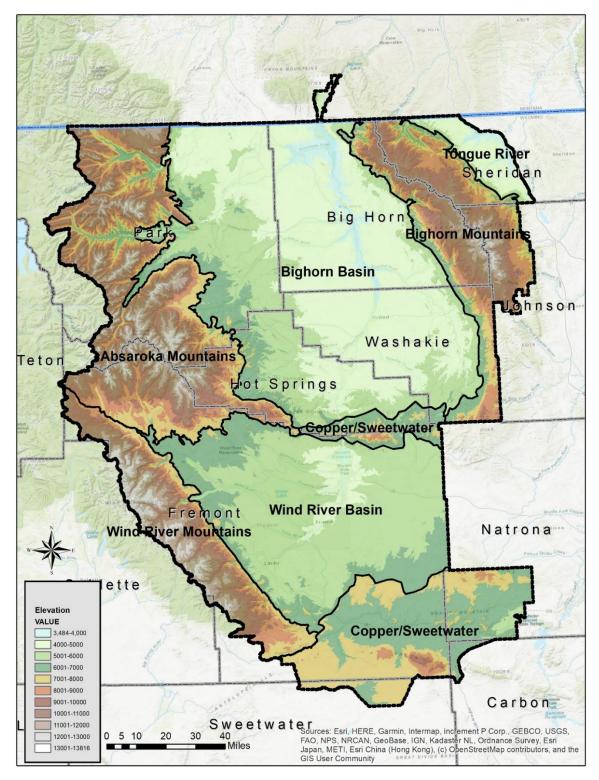
Topography:

Elevation ranges from 5,893' to 13,816'. The highest elevation within the dispatch zone occurs here, Gannett Peak, the highest point in Wyoming. The area consists of steep rocky terrain across most of the area is dissected by steep canyons. Approximately 81% of the terrain is < 40% with predominately eastern aspect.

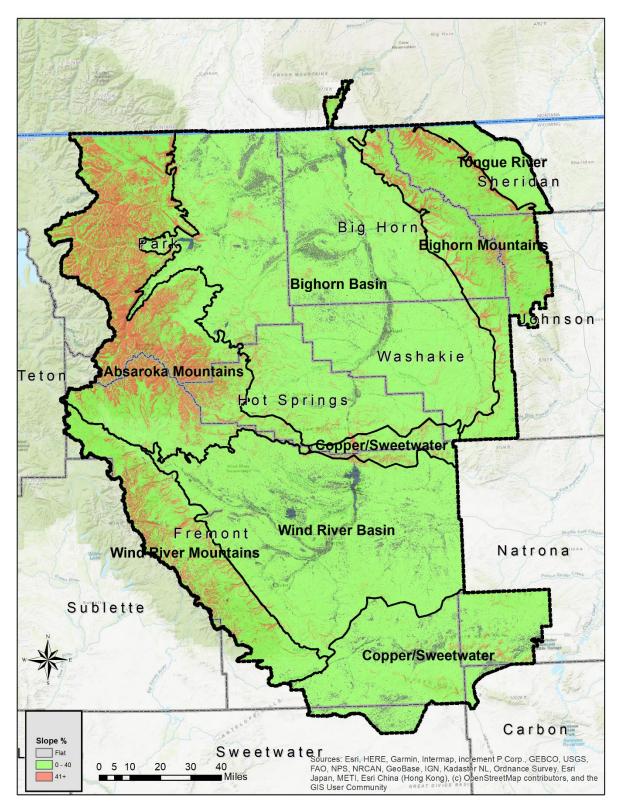
FDRA 7 Wind River Mountains – Fire Summary Graph



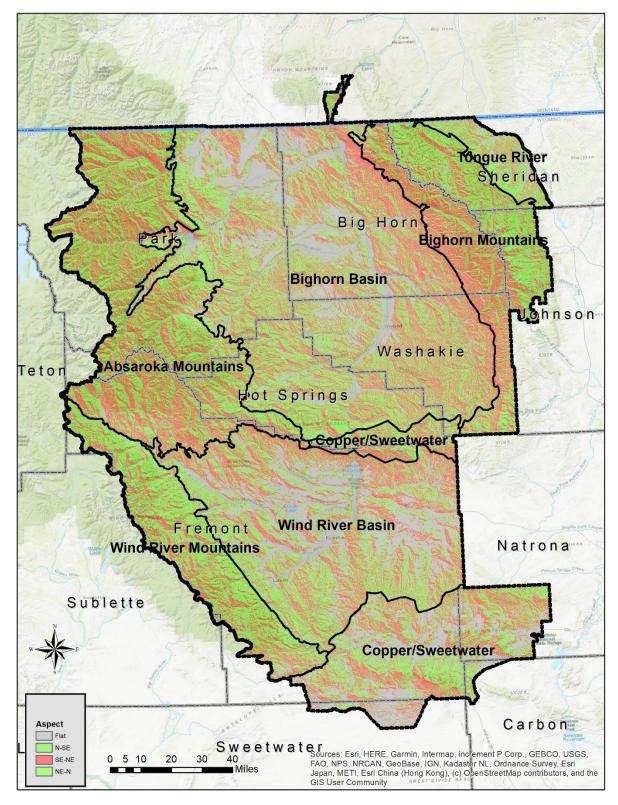
Appendix J TOPOGRAPHY



Map 12. Topography (Elevation Map)

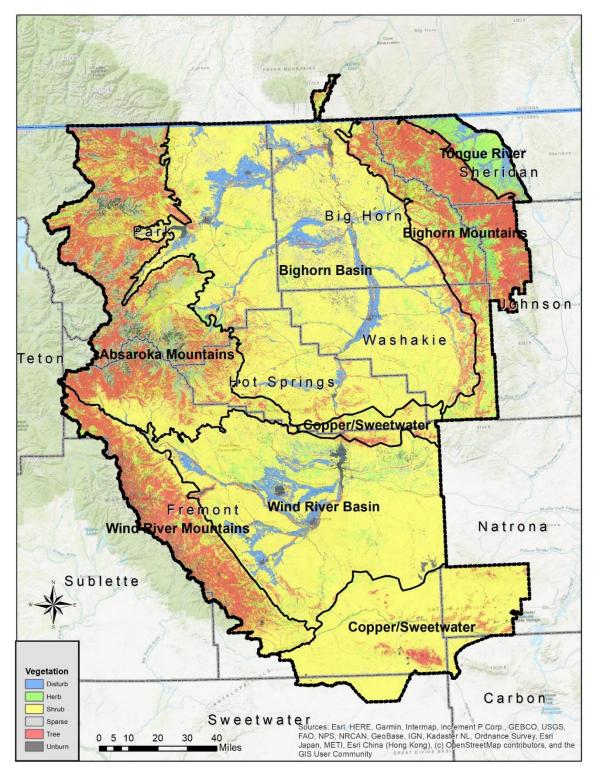


Map 13. Topography (%Slope) Map



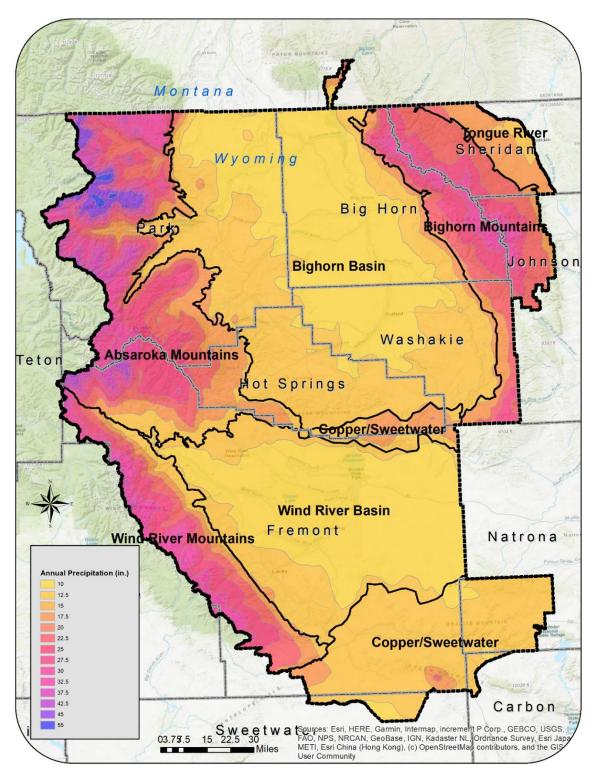
Map 14. Topography (Aspect) Map

Appendix K VEGETATION



Map 15. Vegetation Map

Appendix L CLIMATE



Map 16. Climate (Annual Precipitation) Map

Appendix M FIREFAMILYPLUS ANALYSIS

Fire Danger Rating Level Analysis

FDRA 1 Absaroka Mountains

Large Fire Size (acres)	10				
Multiple Fire Day (fires/day)	2				
Weather Station Number	4802	13	480214	480212	481410
Weather Station Name	Crand	dall	Eagle	Rattlesnake	Elkhorn
NFDRS Fuel Model	Υ		Υ	Υ	Υ
Data Years Used in Analysis	2002-2	2019	2002-2019	2002-2019	2002-2019
Weight	1.0	0	1.00	1.00	1.00

FDRA 2 Bighorn Basin

Large Fire Size (acres)	200				
Multiple Fire Day (fires/day)	3				
Weather Station Number	4808	04	480307	245609	480902
Weather Station Name	Grass C	Creek	Hyatt High	Hillsboro	Pistol Draw
NFDRS Fuel Model	X		X	X	X
Data Years Used in Analysis	2003-2	2019	2003-2019	2003-2019	2016-2019
Weight	1.0	0	1.00	1.00	1.00

FDRA 3 Bighorn Mountains

Large Fire Size (acres)	10				
Multiple Fire Day (fires/day)	2				
Weather Station Number	480306		480403	480906	481002
Weather Station Name	Mill Creek		Burgess	Leigh Creek	School House
					Park
NFDRS Fuel Model	Υ		Υ	Υ	Υ
Data Years Used in Analysis	2004-2	2019	2004-2019	2004-219	2004-219
Weight	1.0	0	1.00	1.00	1.00

FDRA 4 Copper/Sweetwater

Large Fire Size (acres)	50			
Multiple Fire Day (fires/day)	2			
Weather Station Number	480904	482010	481903	481003
Weather Station Name	Splitrock	Camp Creek	Anderson	Poker Creek
			Ridge	
NFDRS Fuel Model	X	X	X	X
Data Years Used in Analysis	2001-2019	2001-2019	2001-2019	2001-2019
Weight	1.00	1.00	1.00	1.00

FDRA 5 Tongue River

Large Fire Size (acres)	30		
Multiple Fire Day (fires/day)	2		
Weather Station Number	245105		
Weather Station Name	Wolf Mountain		
NFDRS Fuel Model	X		
Data Years Used in Analysis	rsis 2002-2019		
Weight	1.00		

FDRA 6 Wind River Basin

Large Fire Size (acres)	150			
Multiple Fire Day (fires/day)	2			
Weather Station Number	481412		482010	481504
Weather Station Name	Sharpnose		Camp Creek	Fales Rock
NFDRS Fuel Model	Х		X	X
Data Years Used in Analysis	2015-2019		2000-2019	2005-2019
Weight	1.0	0	1.00	1.00

FDRA 7 Wind River Mountains

Large Fire Size (acres)	10			
Multiple Fire Day (fires/day)	2			
Weather Station Number	481411		481903	481410
Weather Station Name	Wind River		Anderson	Elkhorn
			Ridge	
NFDRS Fuel Model	Υ		Υ	Υ
Data Years Used in Analysis	2002-2019		2002-2019	2002-2019
Weight	1.0	0	1.00	1.00